

FIG.2A

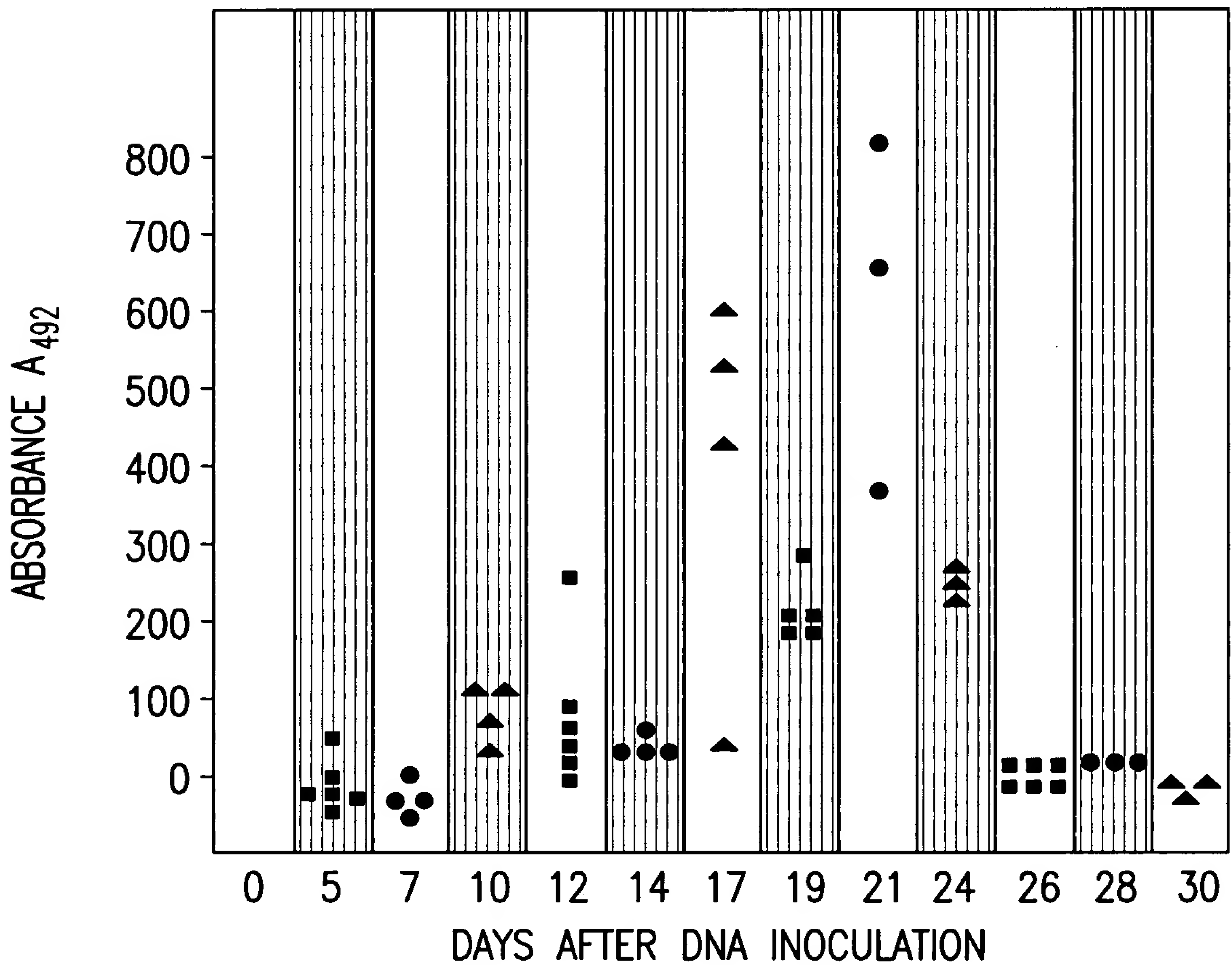


FIG.2B

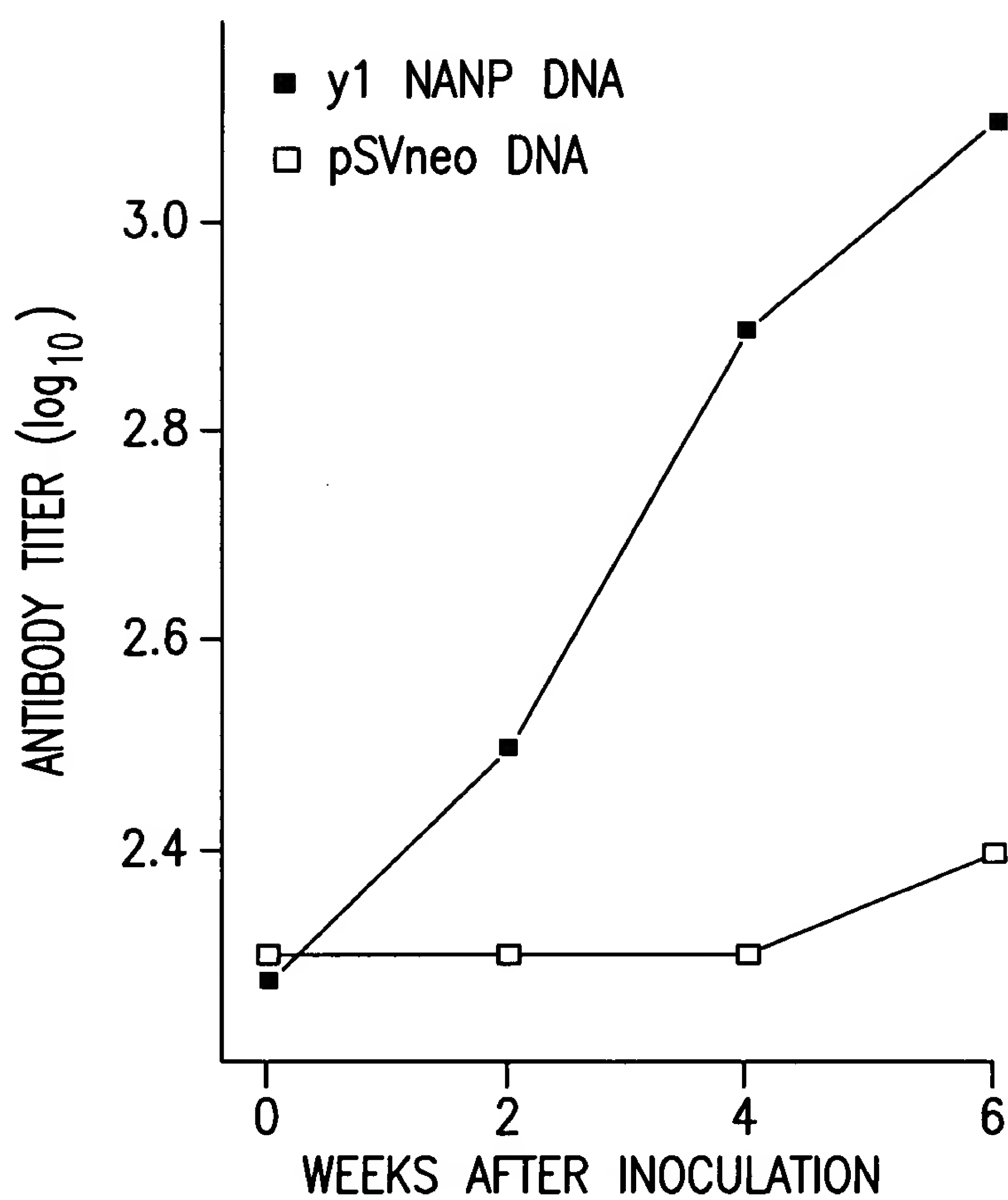


FIG.3

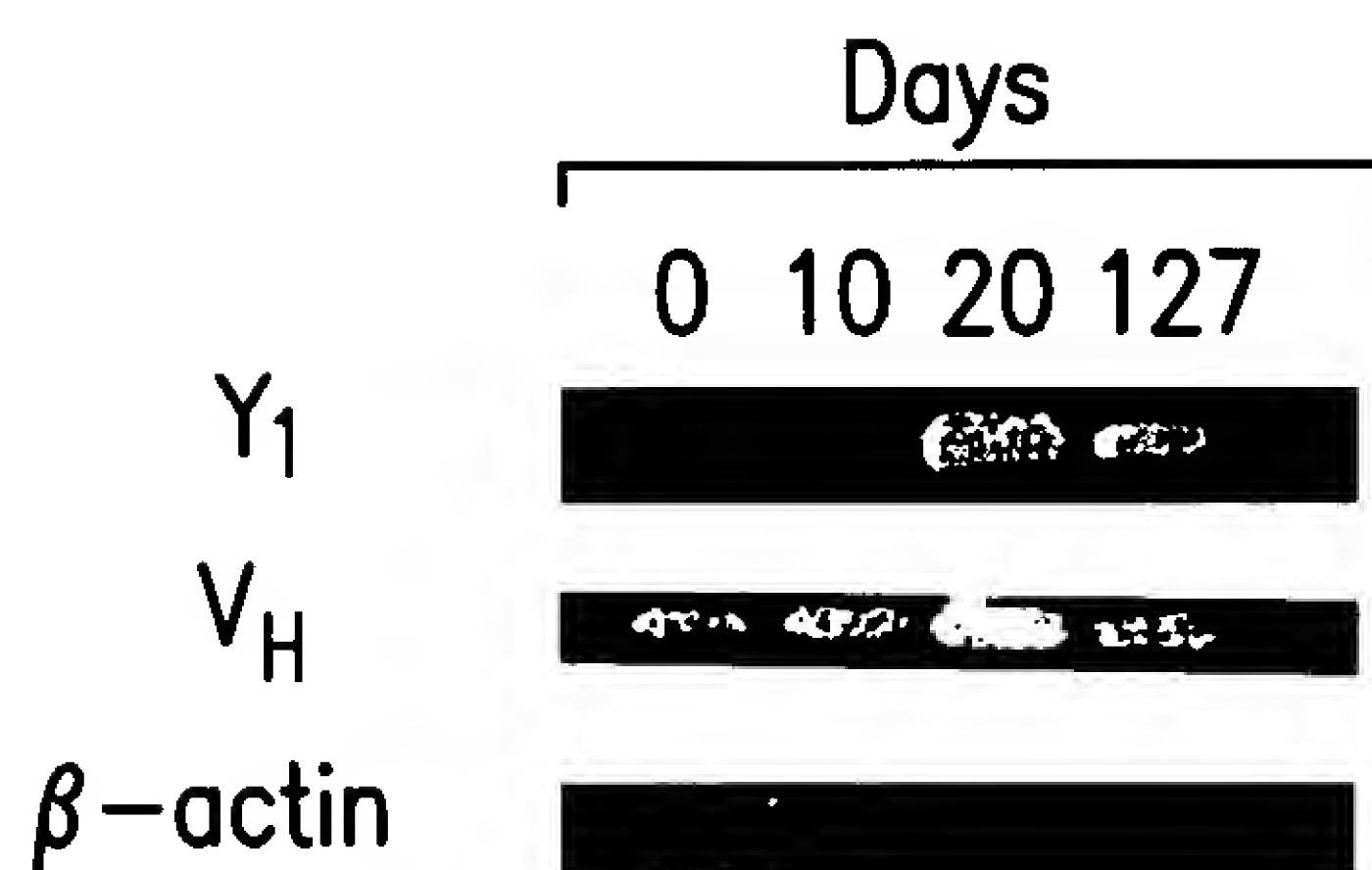


FIG.4A

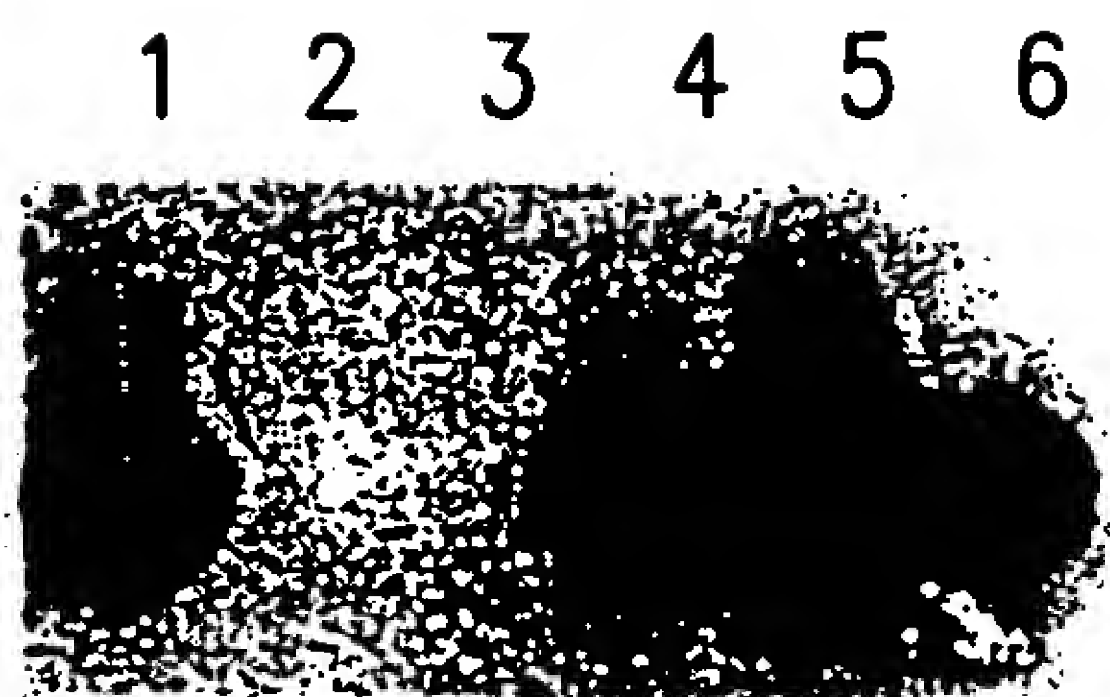


FIG.4B



FIG.4C



FR1				
γ1WT-TAC	GACGTGAAGC	TGGTGGAGTC	TGGGGGAGGC	TTAGTGAAGC
SP7	-----	-----	-----	TTGGAGGGTC
SP8	-----	-----	-----	CCTGAAACTC
SP9	-----	-----	-----	TCCGTGTGCAG
SP10	-----	-----	-----	CCCTCTGGATT
SP11	-----	-----	-----	CACCTTTCAGT
SP12	-----	-----	-----	-----
TR35	-----	-----	-----	-----
TR36	-----	-----	-----	-----
TR37	-----	-----	-----	-----
TR38	-----	-----	-----	-----
FR2				
	CDR1			CDR2
γ1WT-TAC	AGGTATTACA	TGTCTTGGGT	TGCCCAGACT	CCAGAGAAGA
SP7	-----	-----	-----	GGCTGGAGTT
SP8	-----	-----	-----	GGTCGCAGCC
SP9	-----	-----	-----	ATTAATAGTA
SP10	-----	-----	-----	ATGGTGGTAG
SP11	-----	-----	-----	CACCTACTAT
SP12	-----	-----	-----	-----
TR35	-----	-----	-----	-----
TR36	-----	-----	-----	-----
TR37	-----	-----	-----	-----
TR38	-----	-----	-----T	-----
FR3				
γ1WT-TAC	CCAGACACTG	TGAAGGGCCG	ATTCACCATC	TCCAGAGACA
SP7	-----	-----	-----	ATGCCAAAAA
SP8	-----	-----	-----	CACCCCTGTAC
SP9	-----	-----	-----	CTGCAAATGA
SP10	-----	-----	-----	GCAGTCTGAA
SP11	-----	-----	-----	GTCTGAGGAC
SP12	-----	-----	-----	-----
TR35	-----	-----	-----	-----
TR36	-----	-----	-----	-----
TR37	-----	-----	-----	-----
TR38	-----	-----	-----	-----

FIG. 5A

	CDR3										FR4
γ1WT-TAC	ACAGCCTTGT	ATTACTGTGC	AAGAAAGGTA	CCCTACTCTC	ATGGTATGGA	CTACTGGGGT	CAAGGAACCT	CAGTCACCGT	CTCCTCAGGT		
SP7	-----T-----	-----	-----	-----	-----	-----	-----	-----	-----		
SP8	-----	-----	-----	-----	-----	-----	-----	-----	-----		
SP9	-----	-----	-----	-----	-----	-----	-----	-----	-----		
SP10	-----	-----	-----	-----	-----	-----	-----	-----	-----		
SP11	-----	-----	-----	-----	-----	-----	-----	-----	-----		
SP12	-----	-----	-----	-----	-----	-----	-----	-----	-----		
TR35	-----	-----	-----	-----	-----	-----	-----	-----	-----		
TR36	-----	-----	-----	-----	-----	-----	-----	-----	-----		
TR37	-----	-----	-----	-----	-----	-----	-----	-----	-----		
TR38	-----	-----	-----	-----	-----	-----	-----	-----	-----		
γ1WT-TAC	AAGAATGGCC	TCTCCAGGTC	TTTATTTT	TAACCTTTGTTA	TGGAGTTTTC	TGAGCATTGC	AG				
SP7	-----	-----	-----	-----	-----	-----	-----				
SP8	-----	-----	-----	-----	-----	-----	-----				
SP9	-----	-----	-----	-----	-----	-----	-----				
SP10	-----	-----	-----	-----	-----	-----	-----				
SP11	-----	-----	-----	-----	-----	-----	-----				
SP12	-----	-----	-----	-----	-----	-----	-----				
TR35	-----	-----	-----	-----	-----	-----	-----				
TR36	-----	-----	-----	-----	-----	-----	-----				
TR37	-----	-----	-----	-----	-----	-----	-----				
TR38	-----	-----	-----	-----	-----	-----	-----				

FIG. 5B

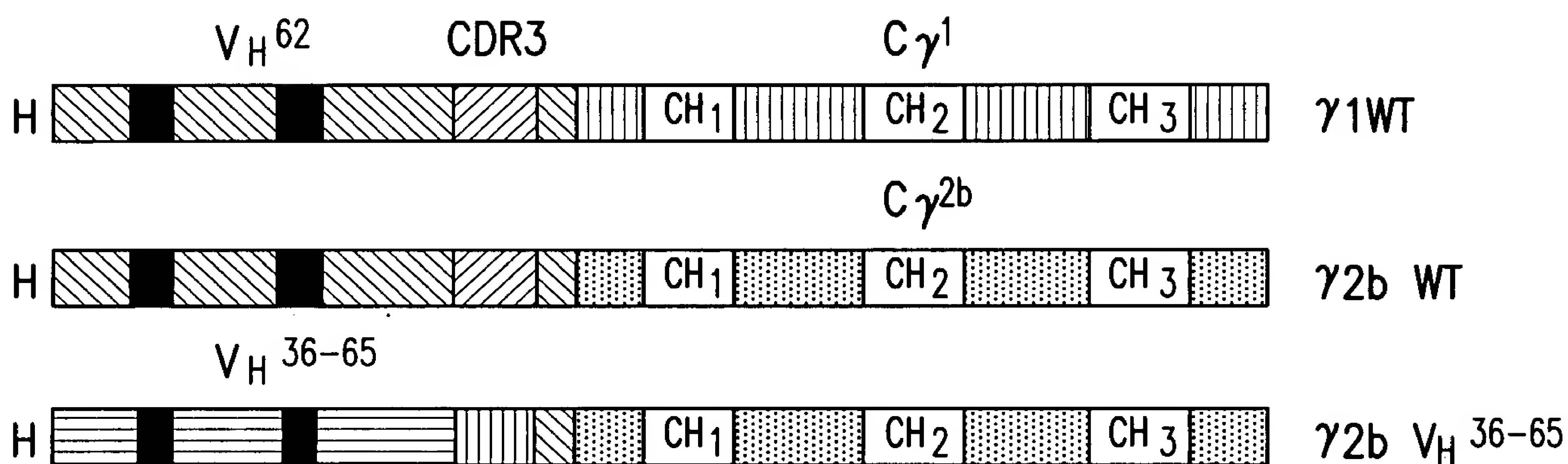


FIG.6A

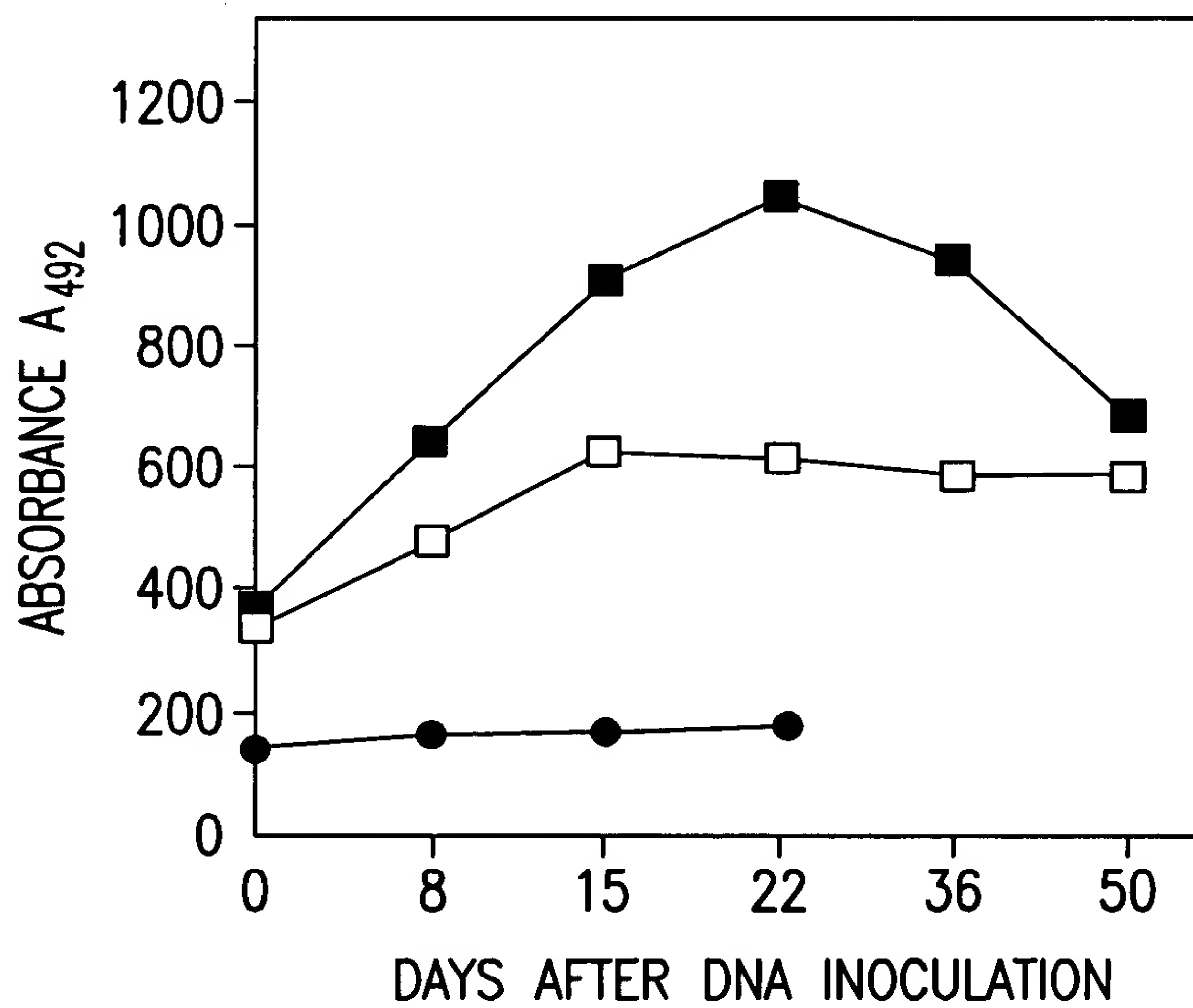


FIG.6B

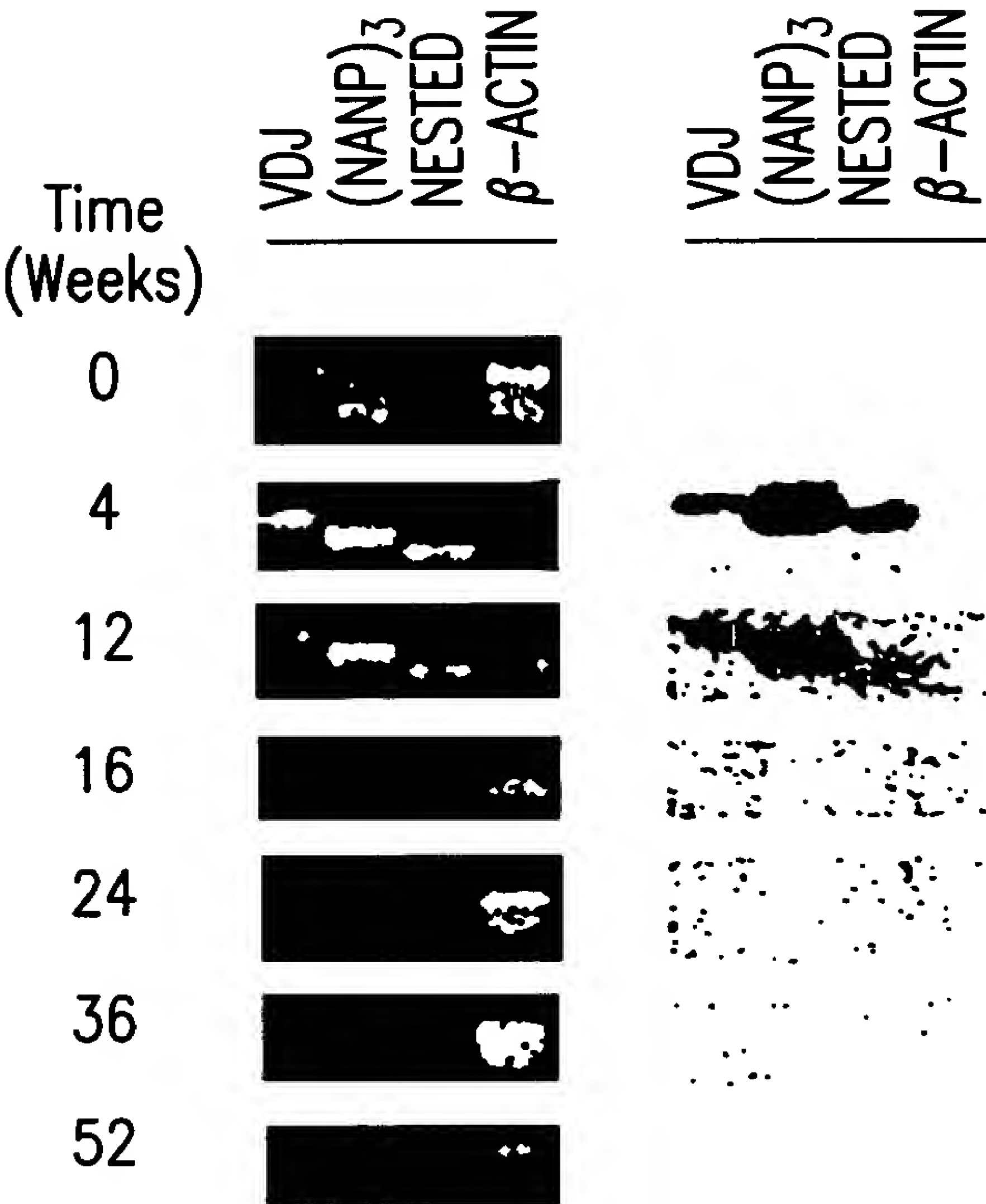


FIG.7A



PCR Fragments

1 VDJ (566 bp)

2 (NANP)₃ (384 bp)

3 NESTED (198 bp)

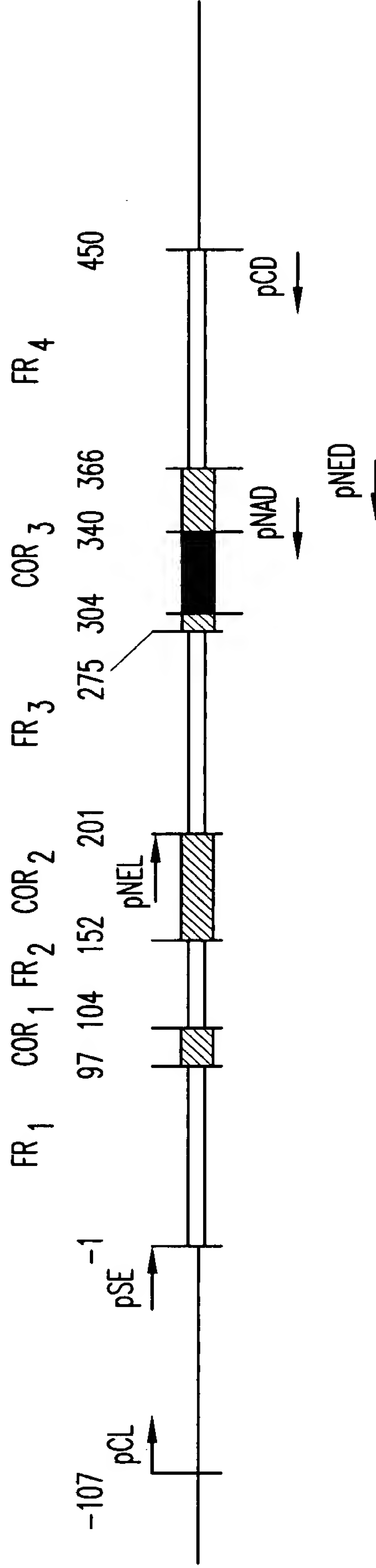


FIG.7B

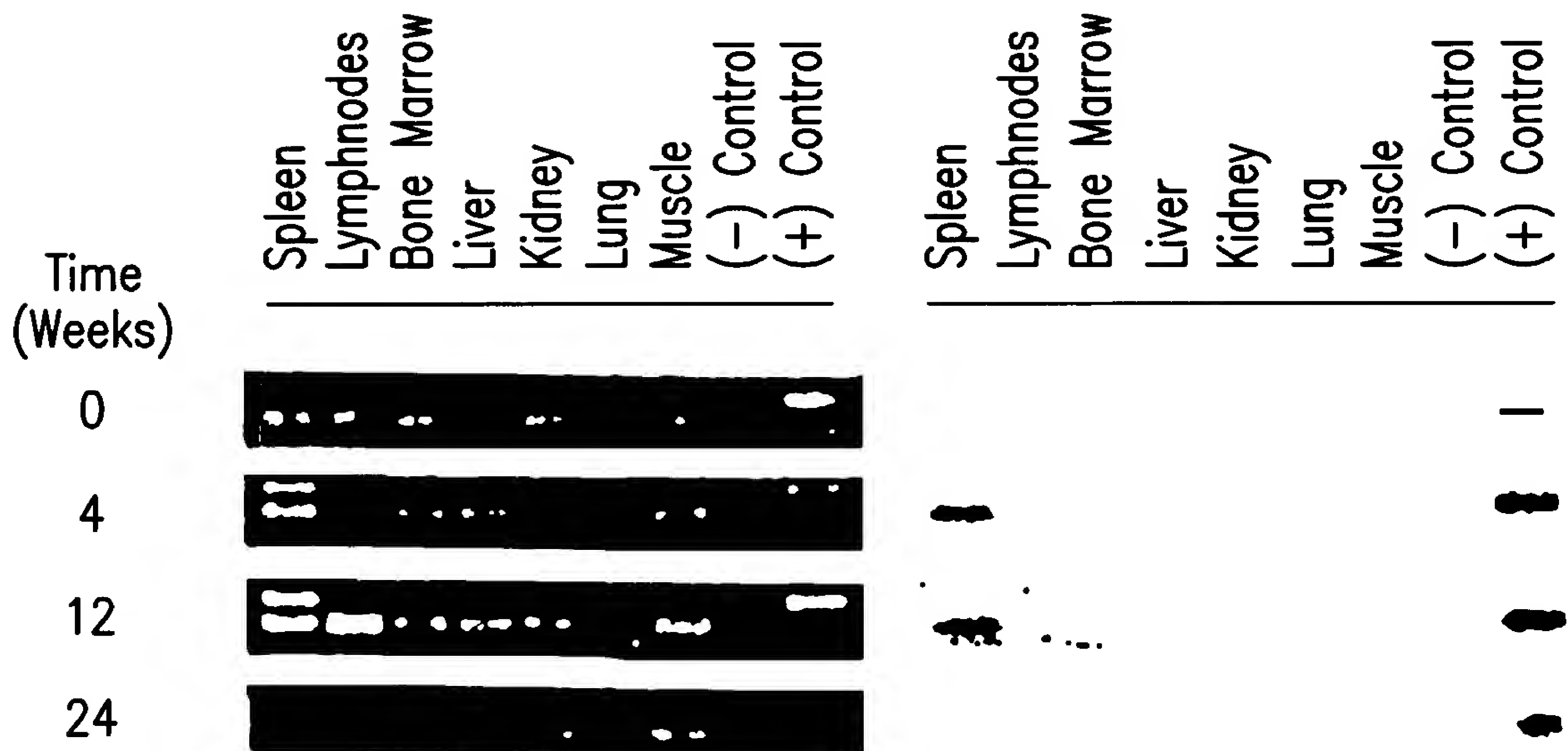


FIG.7C

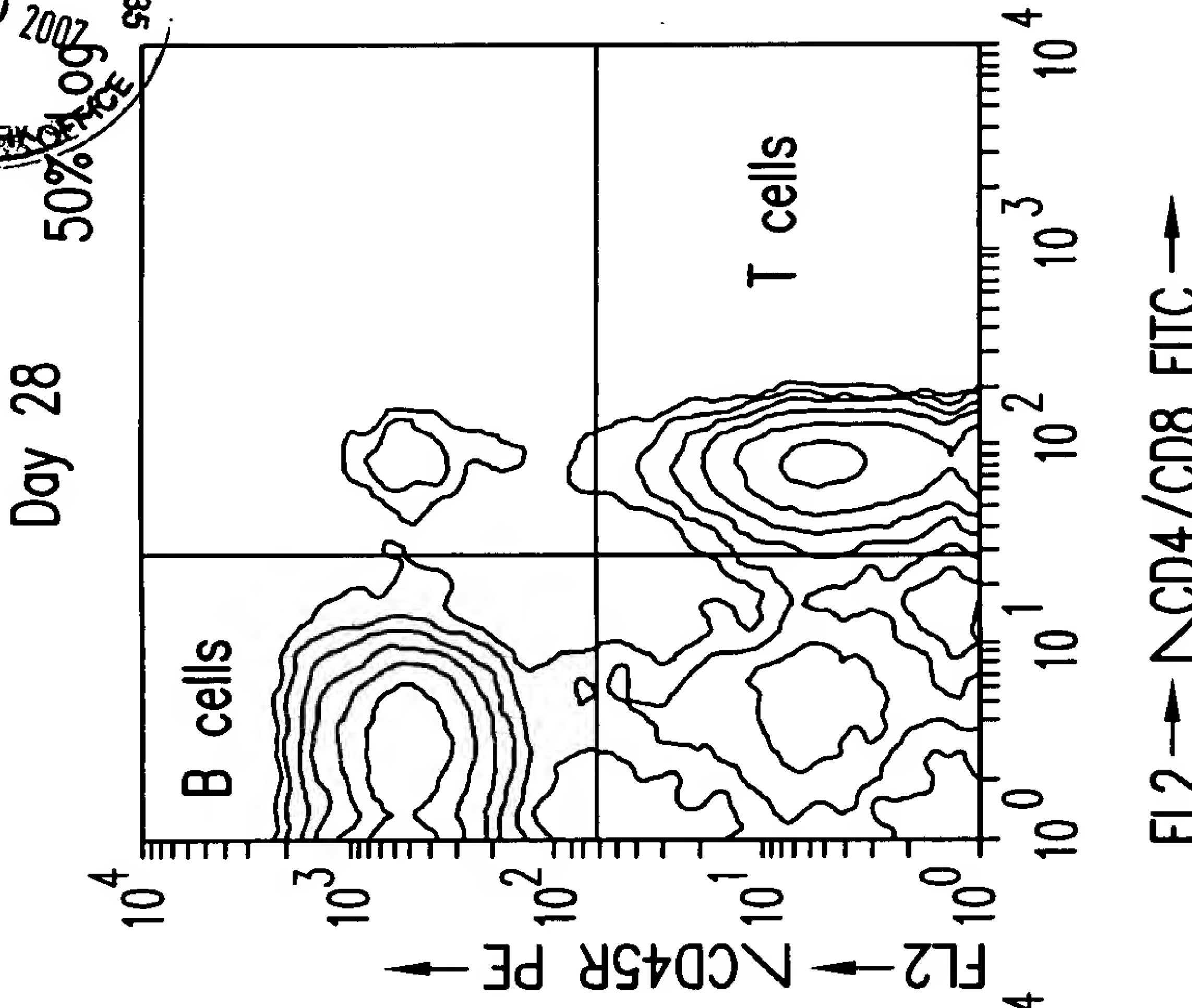
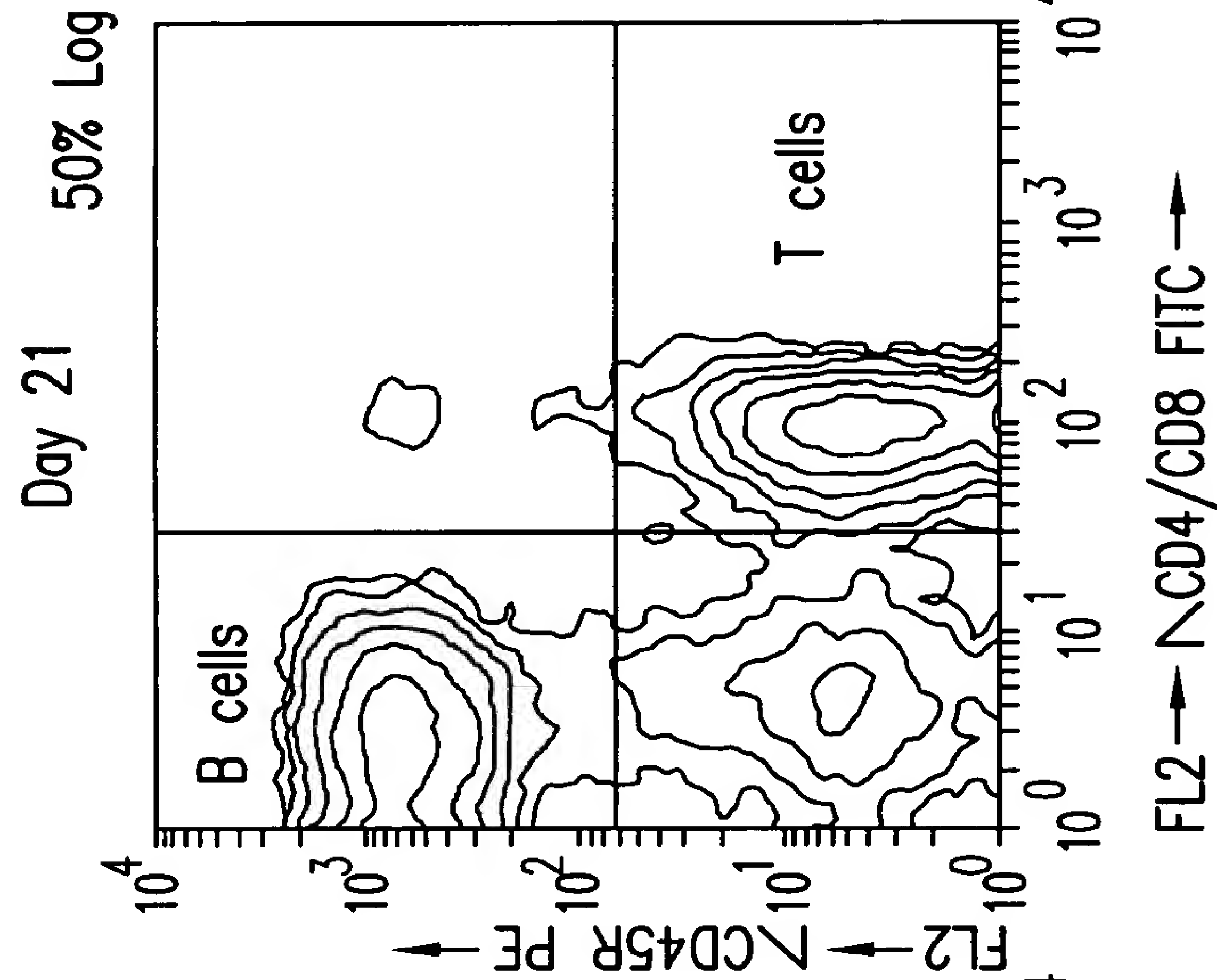
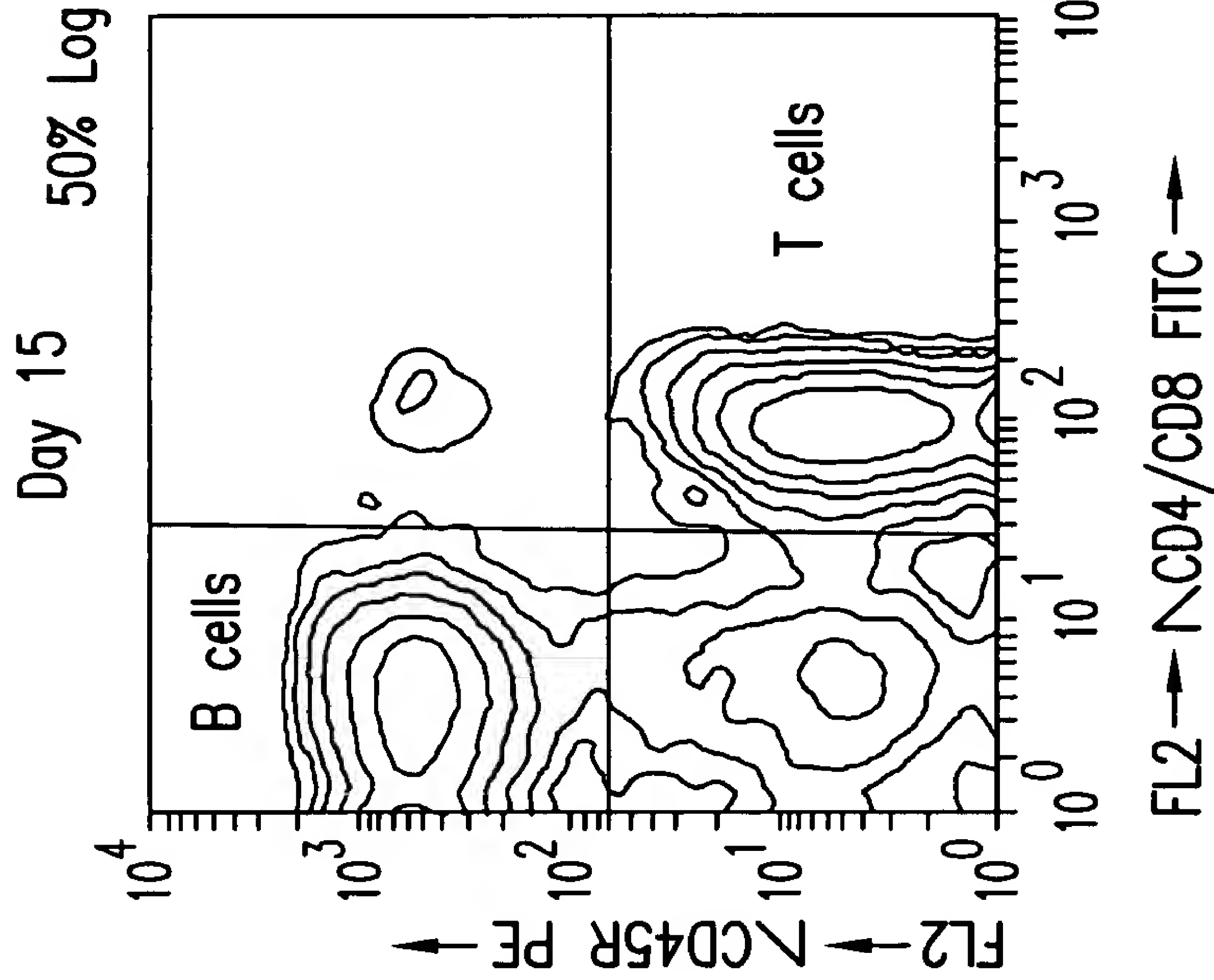


FIG. 8A

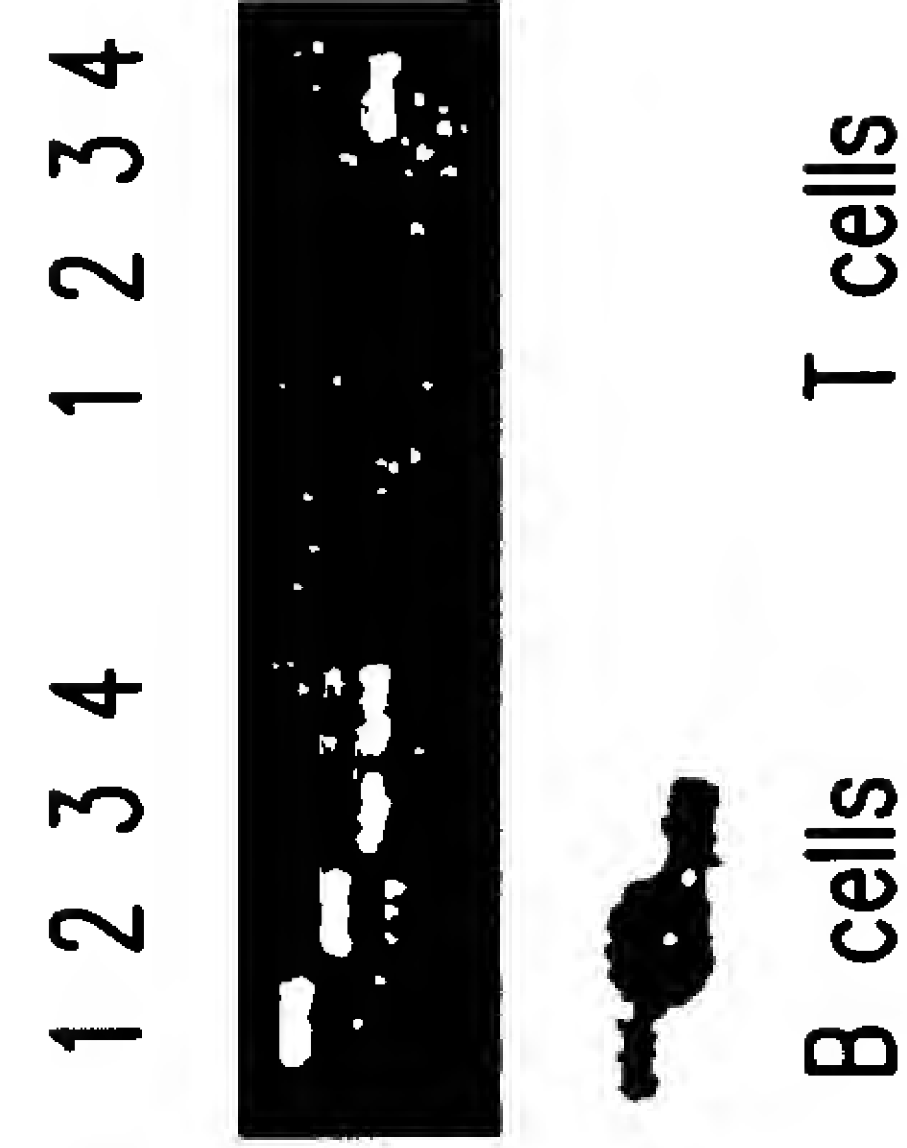
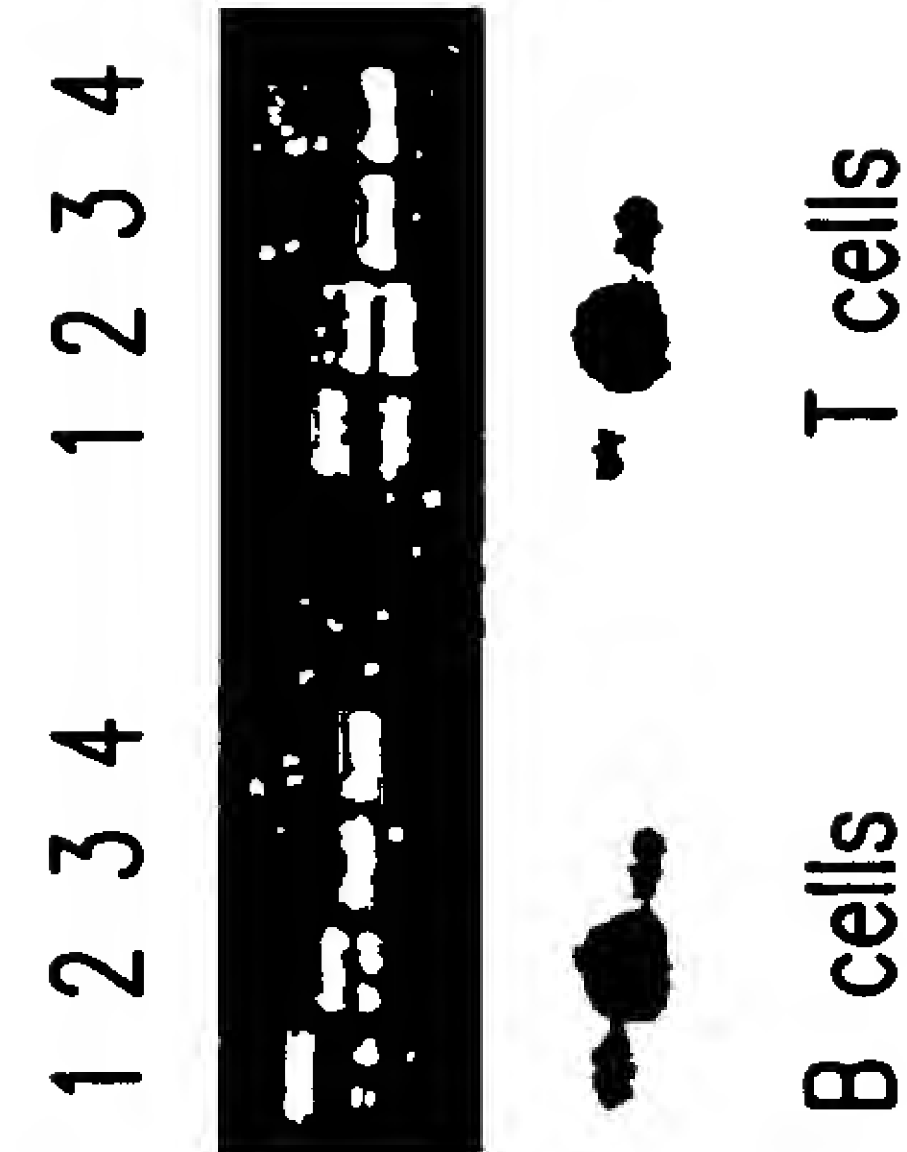


FIG. 8B

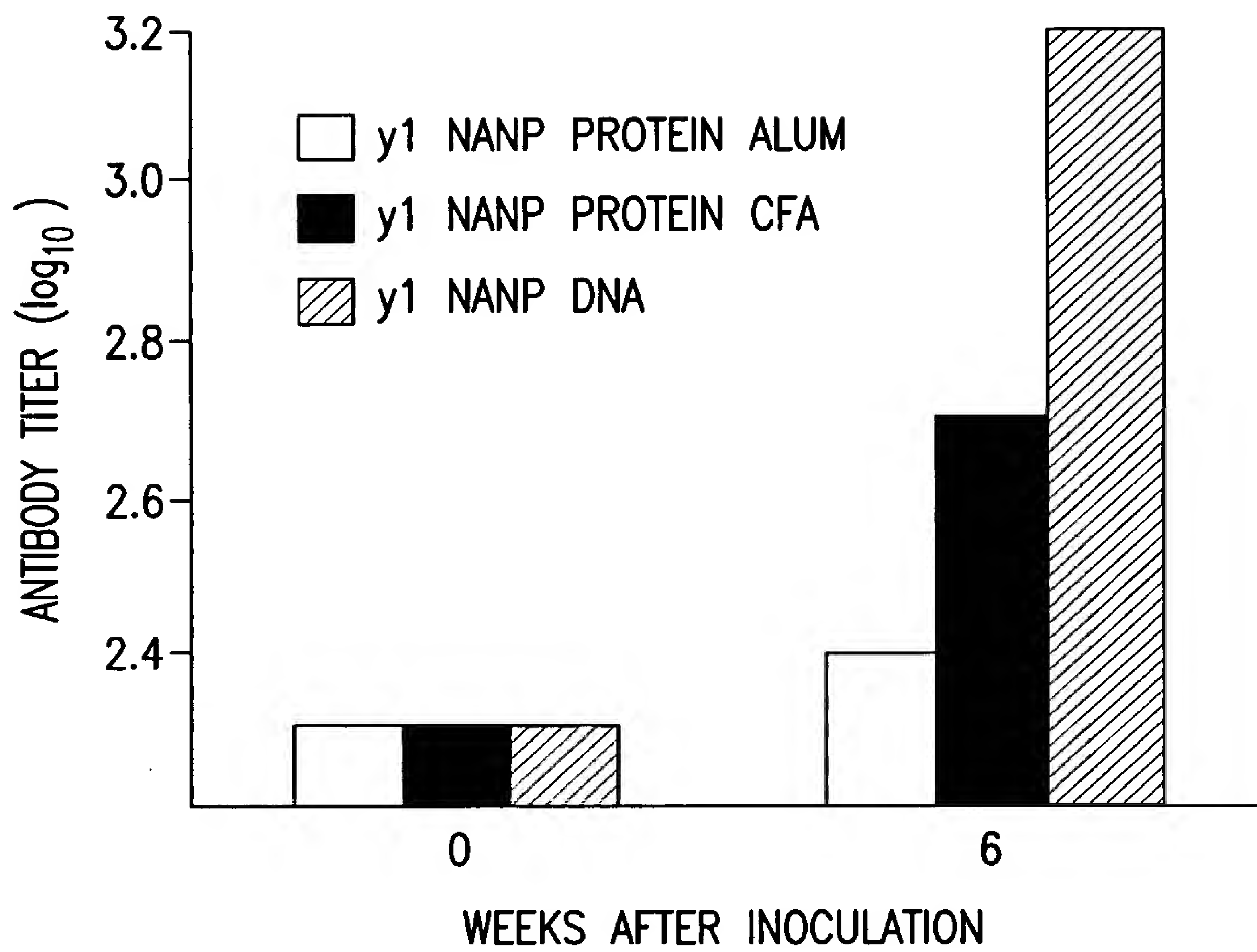
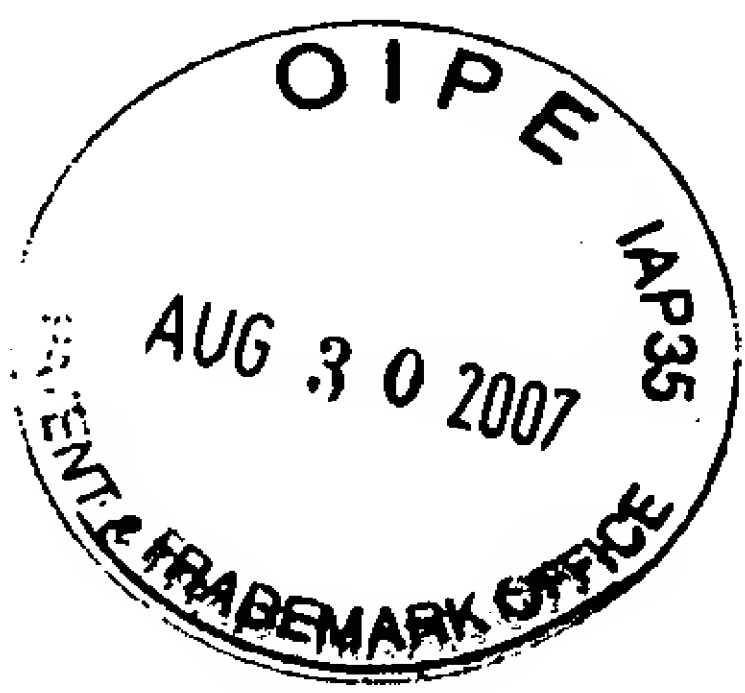


FIG.9



PRIMING BOOSTER

γ 1NANP
DNA

SPZ.

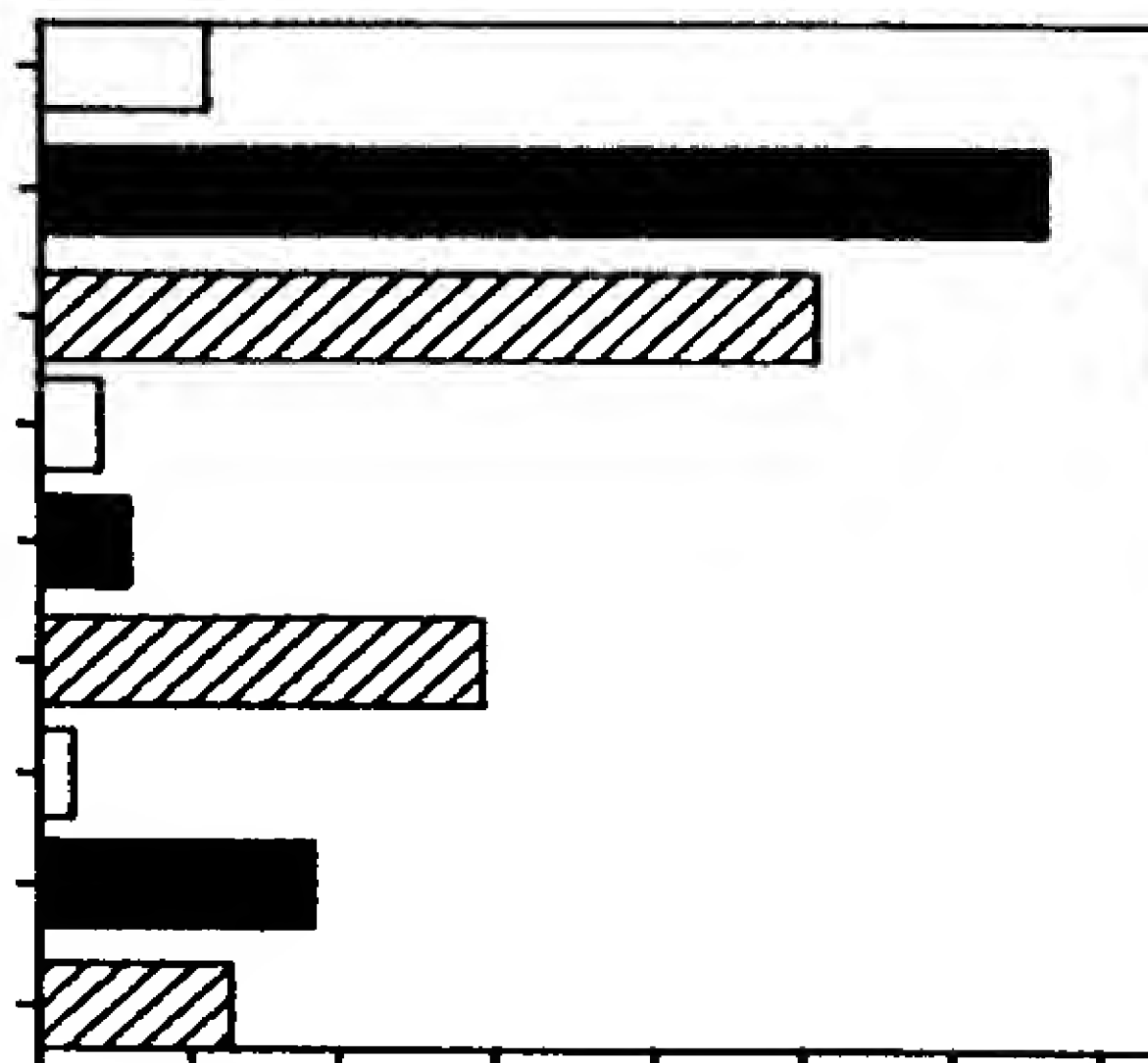
γ 1NANP
DNA

γ 1NANP
IFA

γ 1WT
DNA

SPZ.

(NANAP)_n PEPTIDE

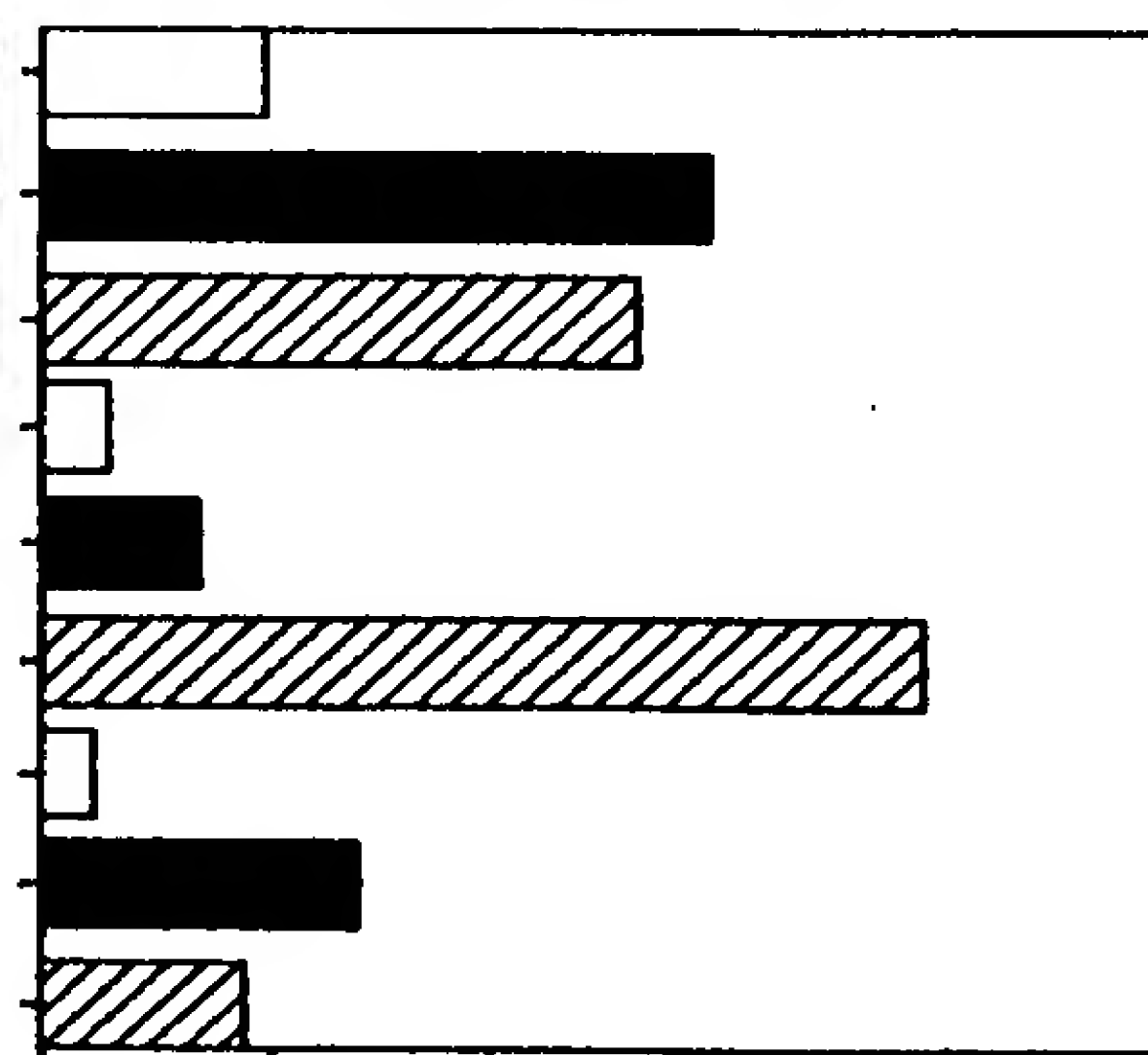


0.4 0.8 1.2 1.6 2.0 2.4 2.8

ABSORBANCE A 492

FIG. 10A

RECOMBINANT R32LR



0.4 0.8 1.2 1.6 2.0

ABSORBANCE A 492

FIG. 10B

□ DAY 45
 ■ DAY 60
 ▨ DAY 80

PRIMING BOOSTER

γ 1NANP
PROTEIN

SPZ.

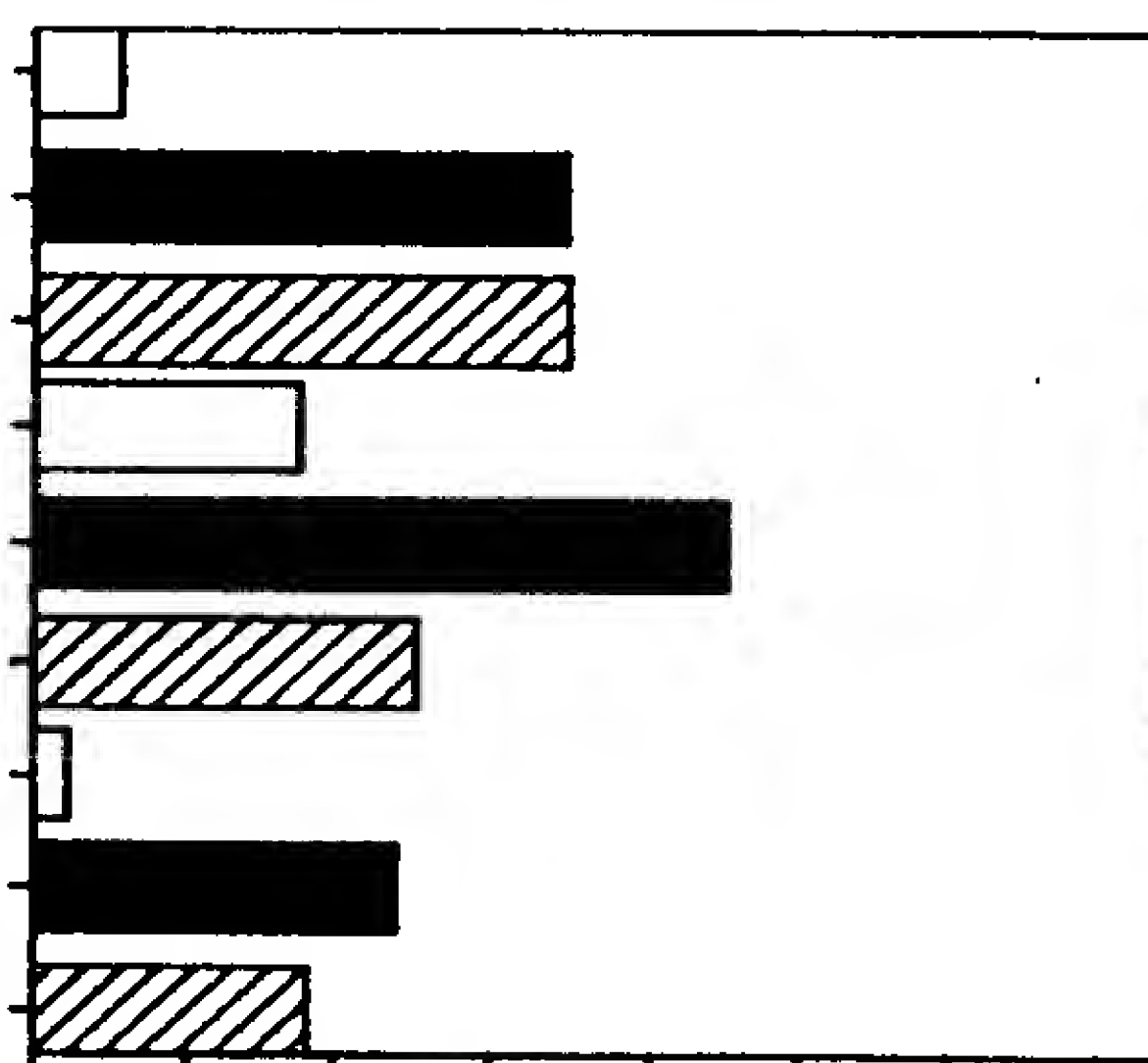
γ 1NANP
PROTEIN

γ 1NANP
IFA

SALINE

SPZ.

(NANAP)_n PEPTIDE

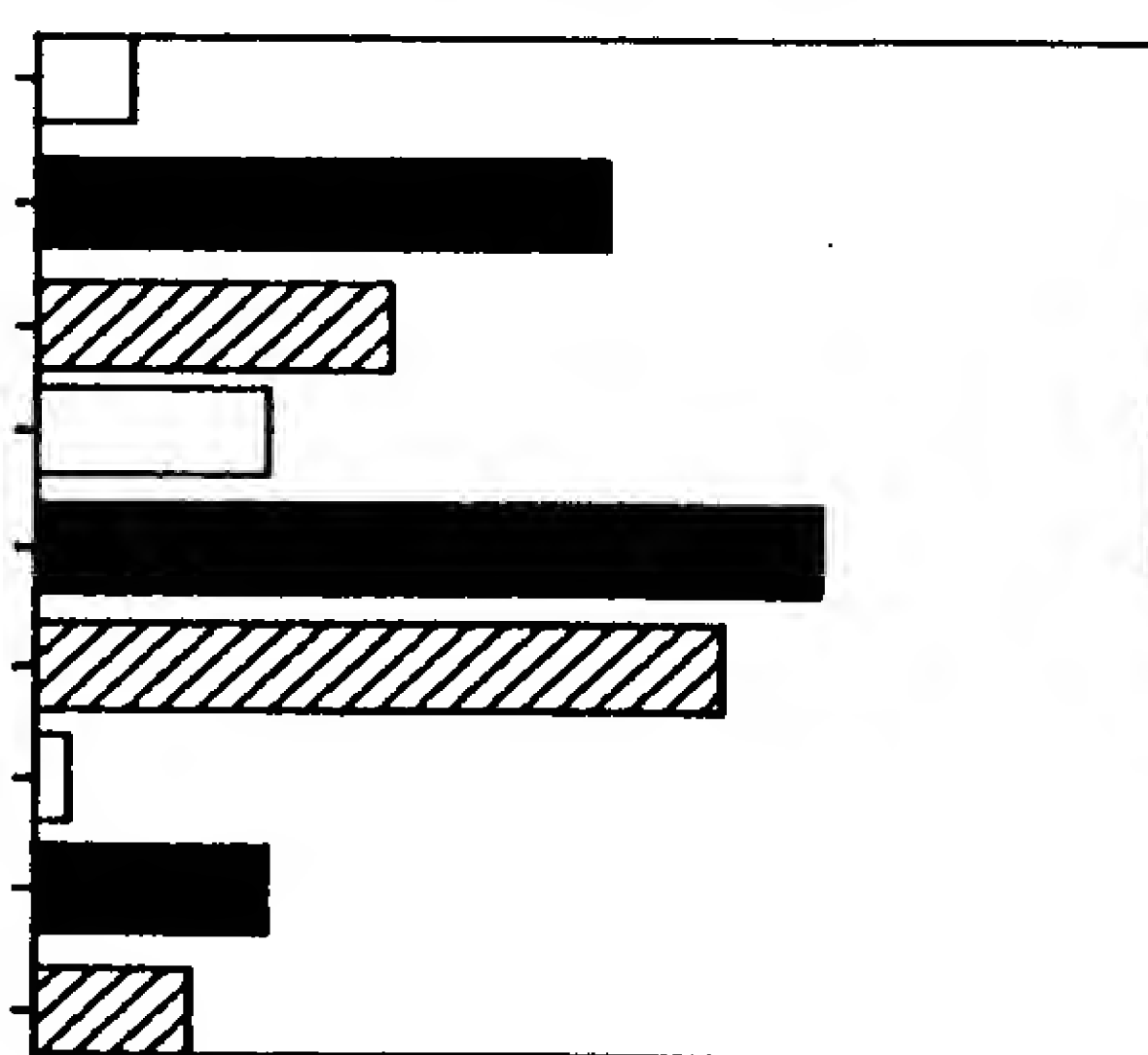


0.4 0.8 1.2 1.6 2.0 2.4 2.8

ABSORBANCE A 492

FIG. 10C

RECOMBINANT R32LR



0.4 0.8 1.2 1.6 2.0

ABSORBANCE A 492

FIG. 10D

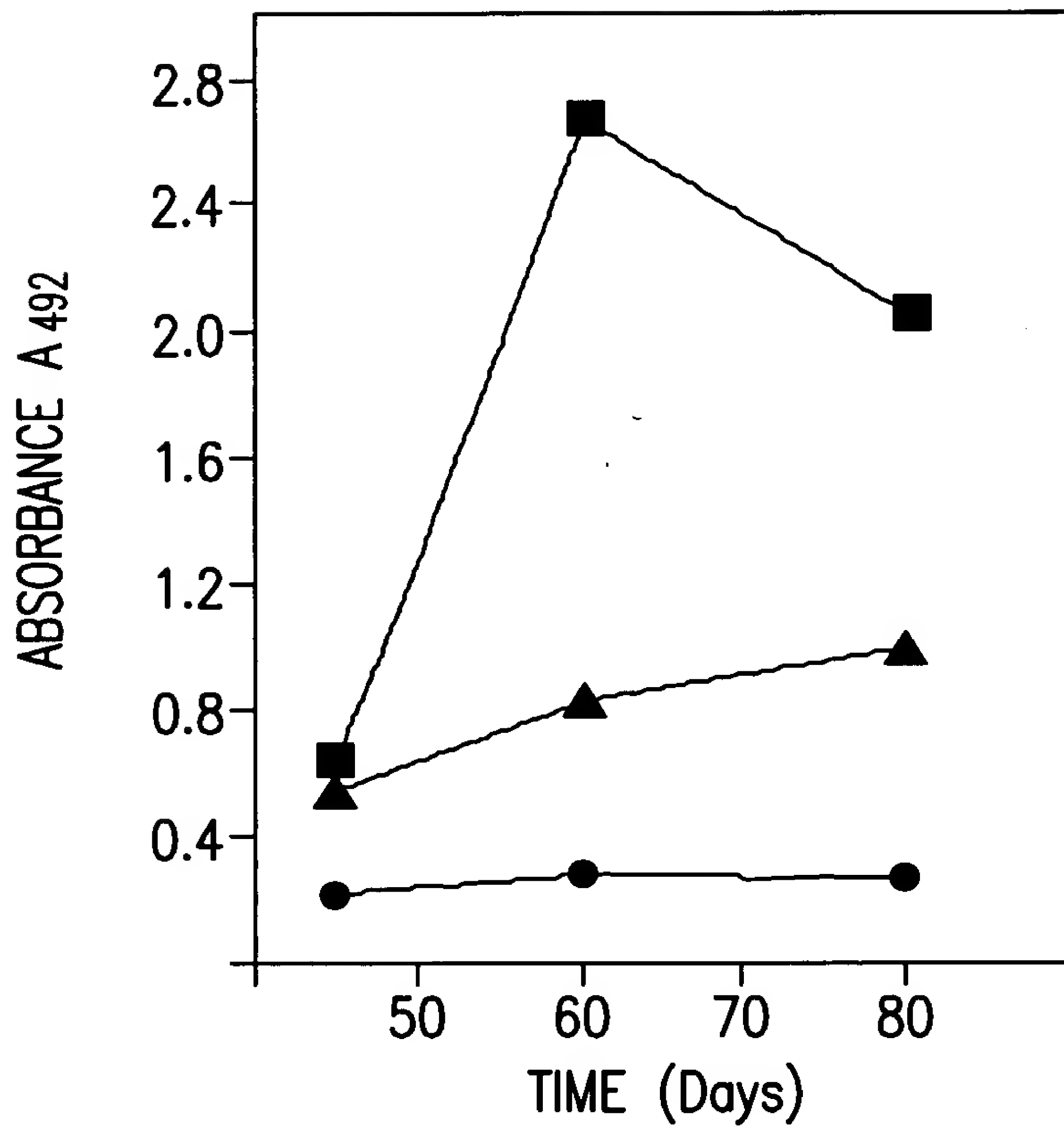


FIG. 11A

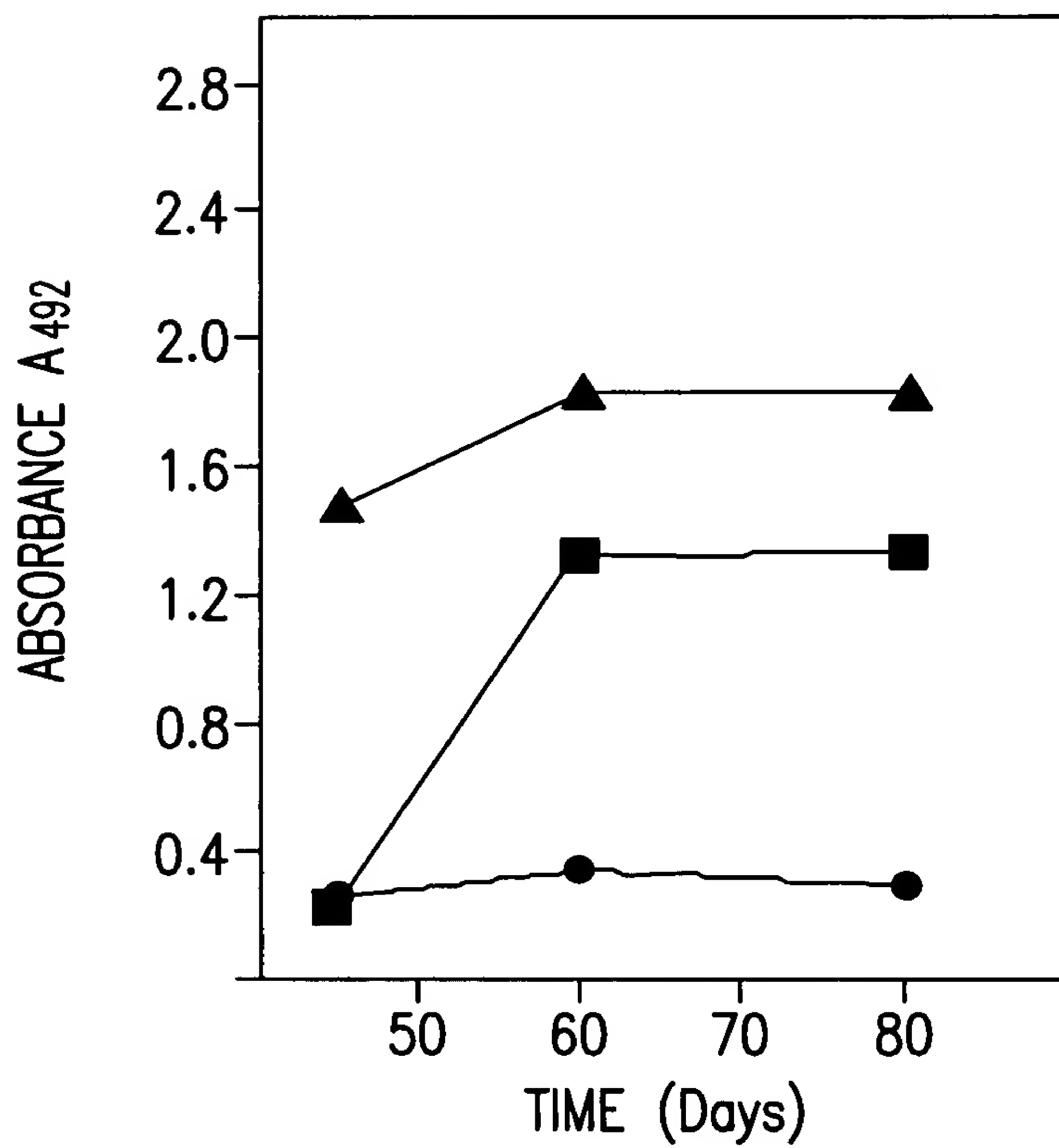


FIG. 11B

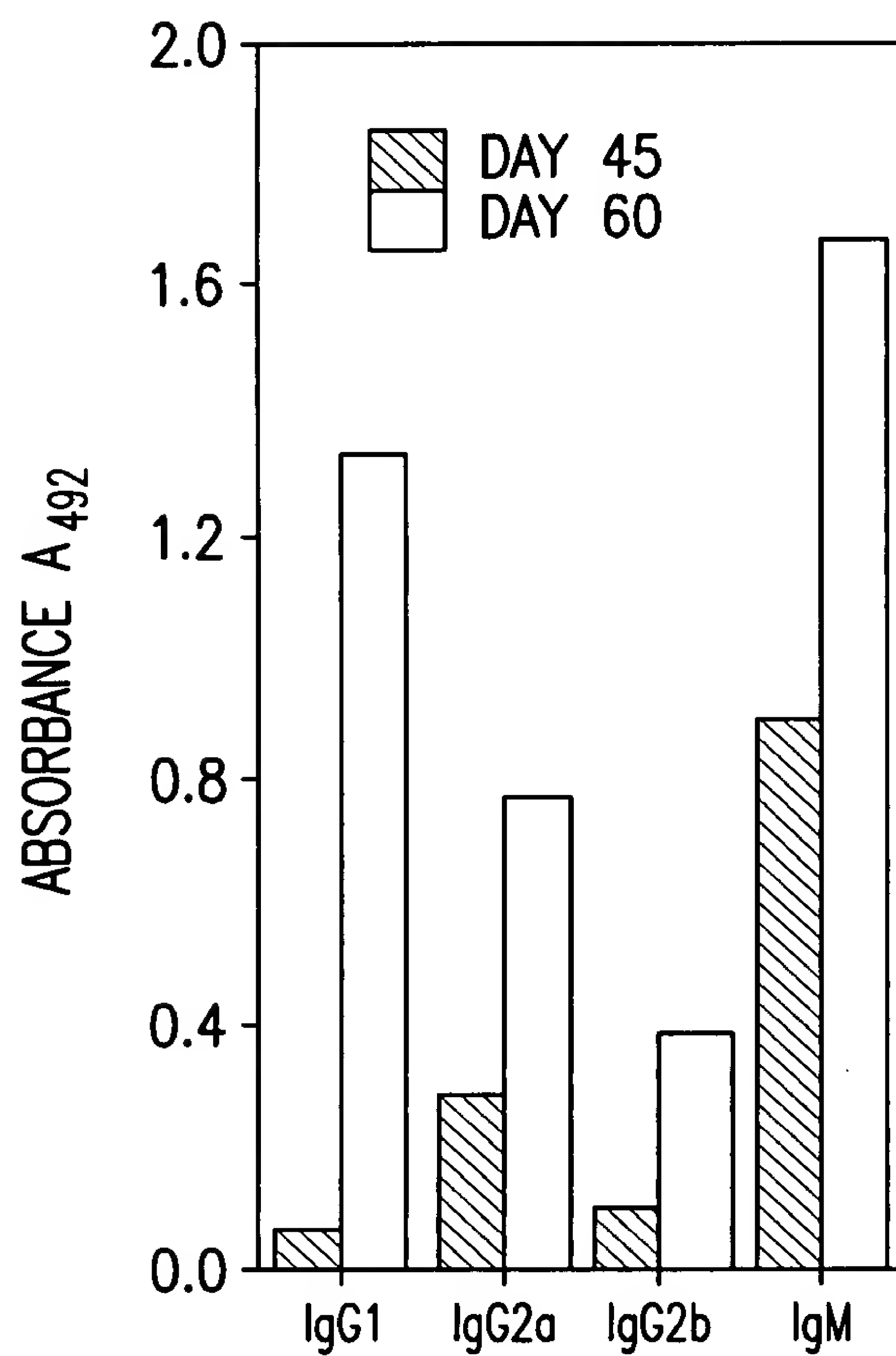


FIG. 12A

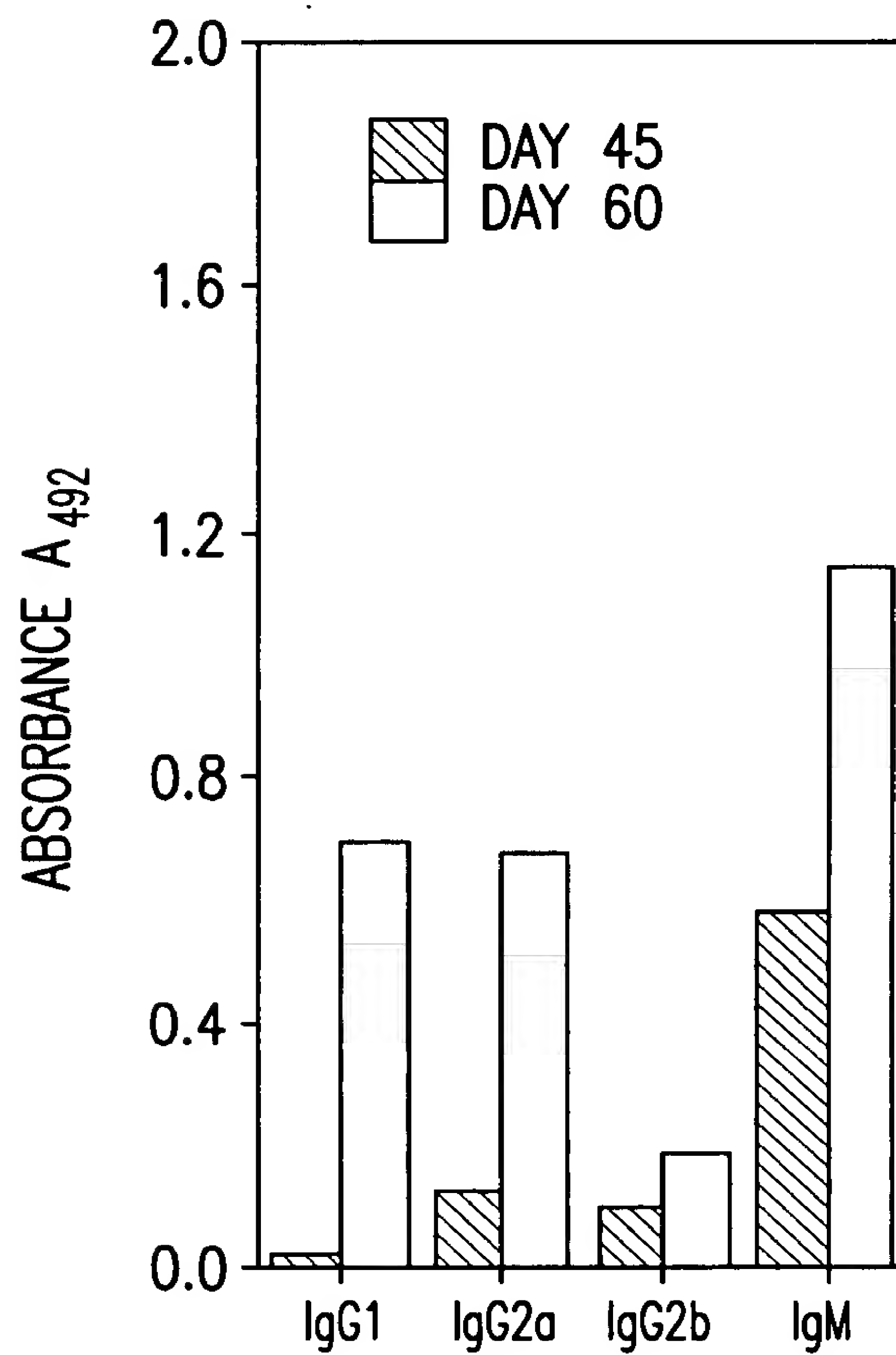


FIG. 12B

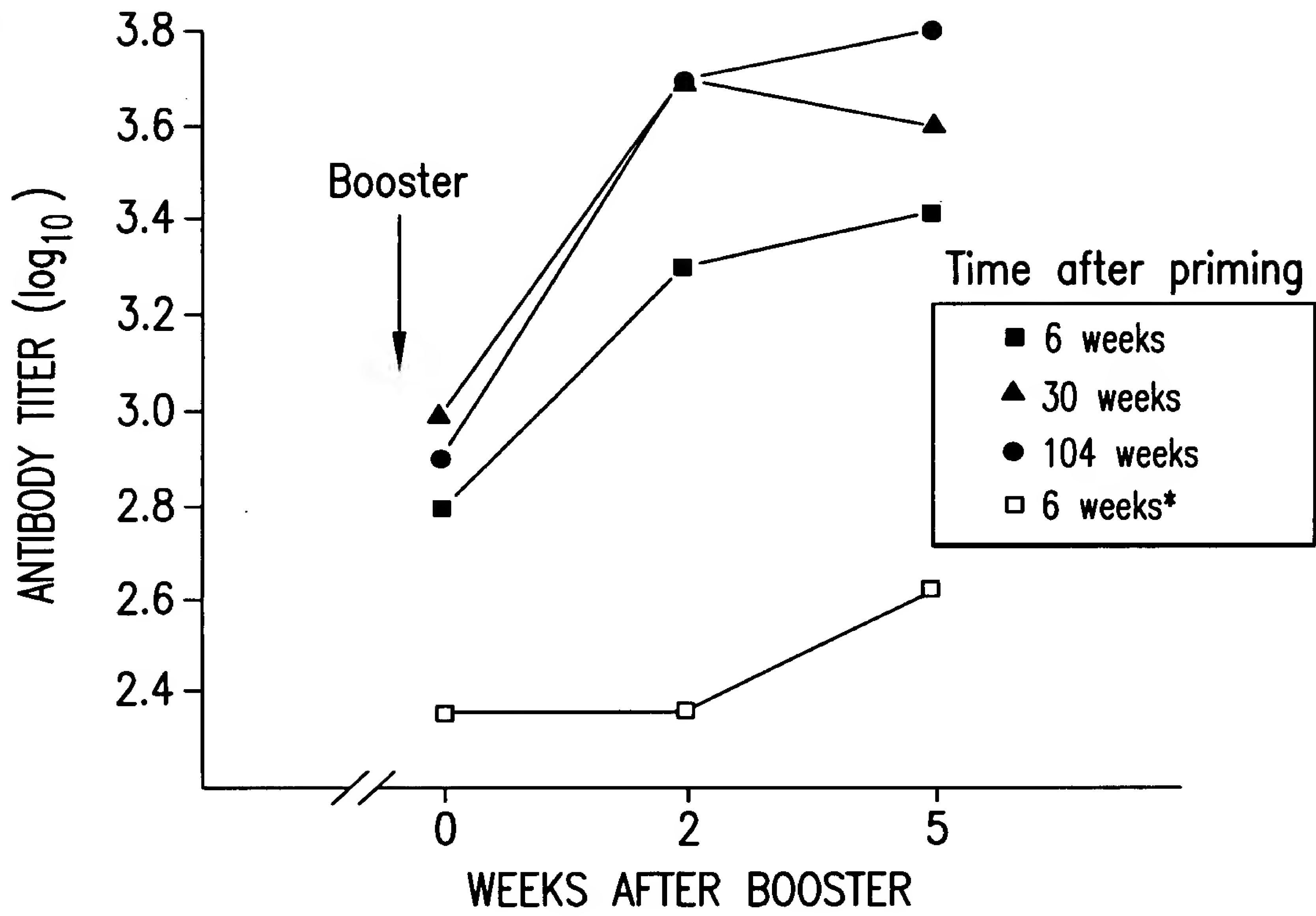


FIG.13

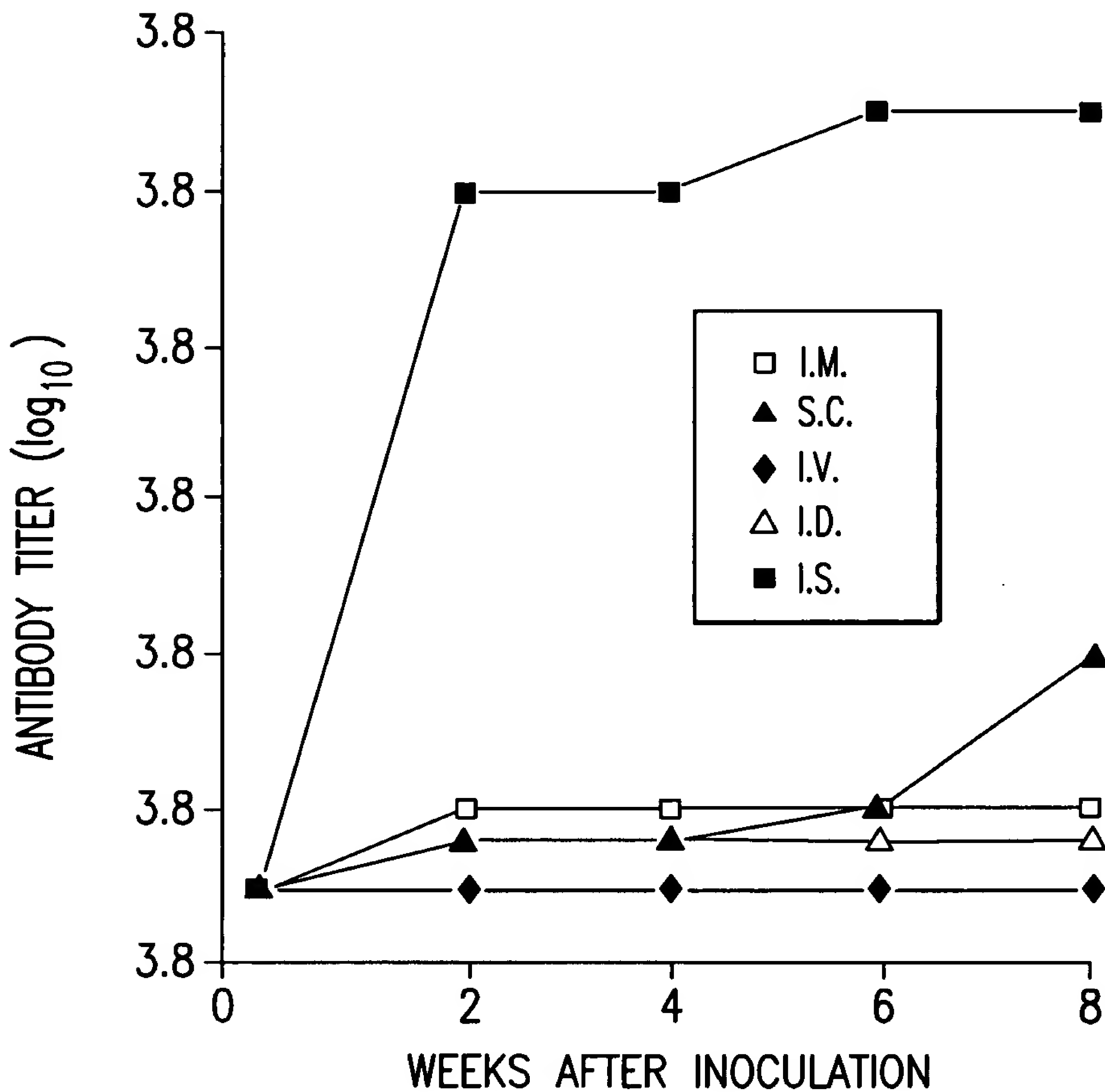


FIG.14

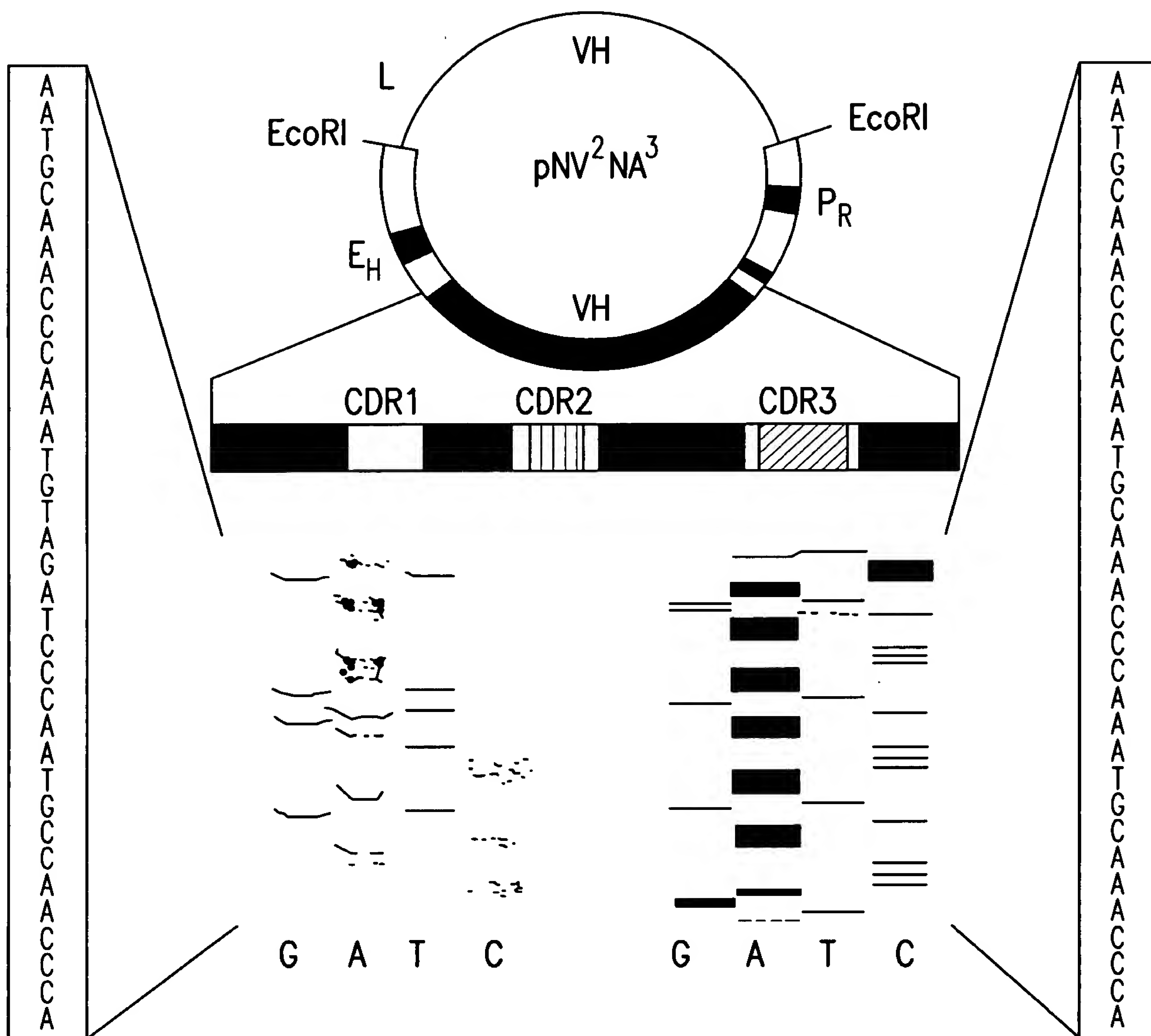


FIG.15A

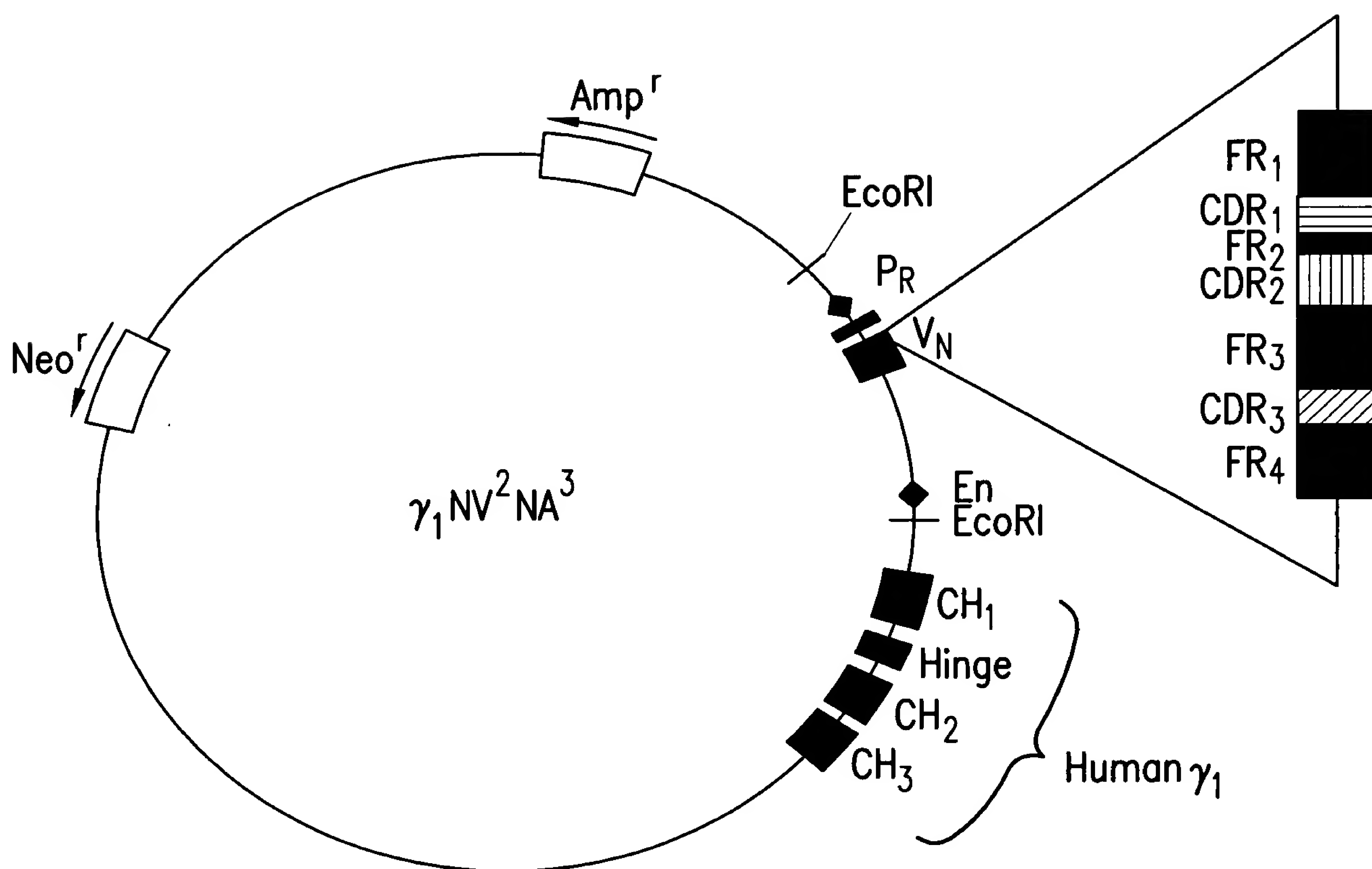


FIG.15B

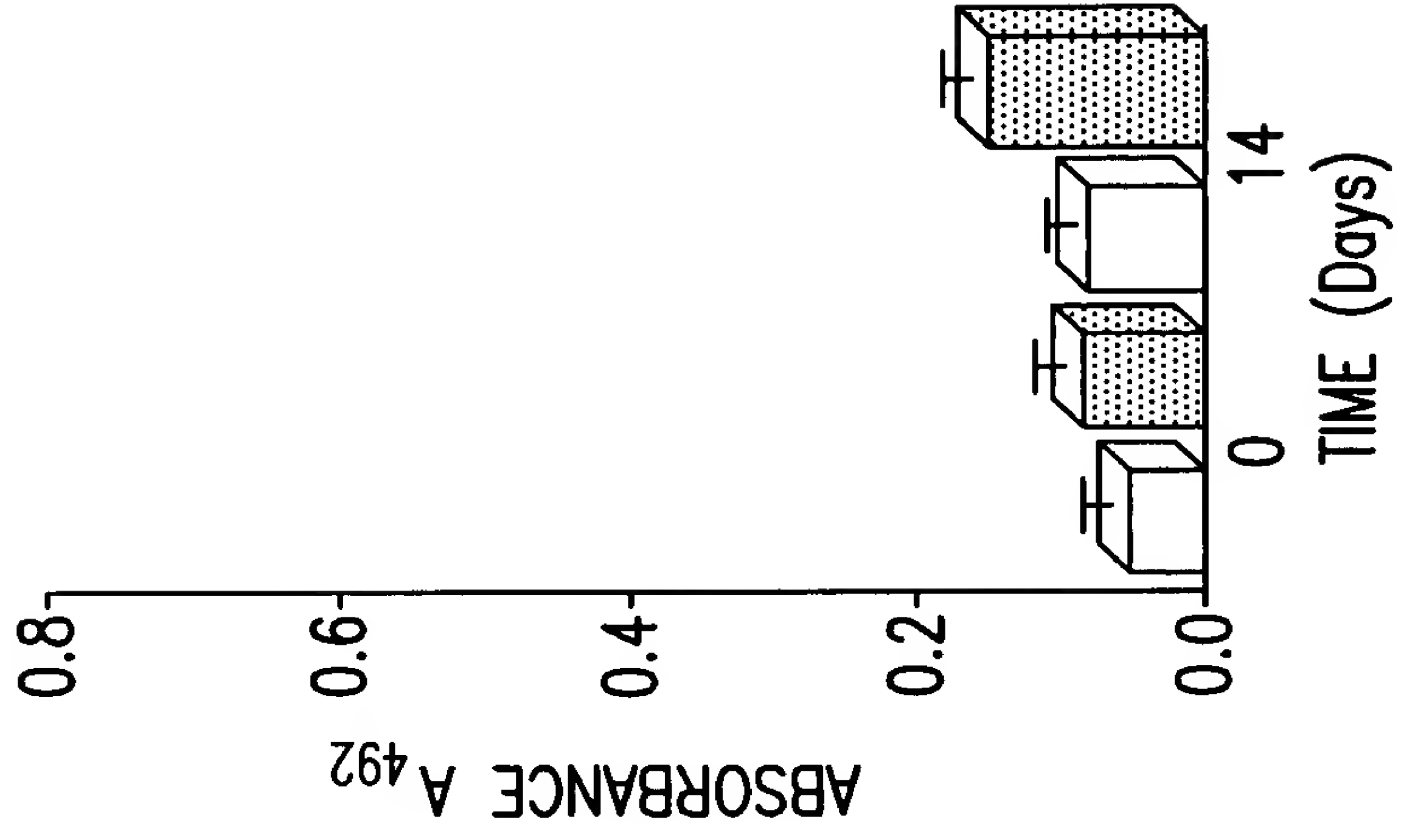


FIG. 16C

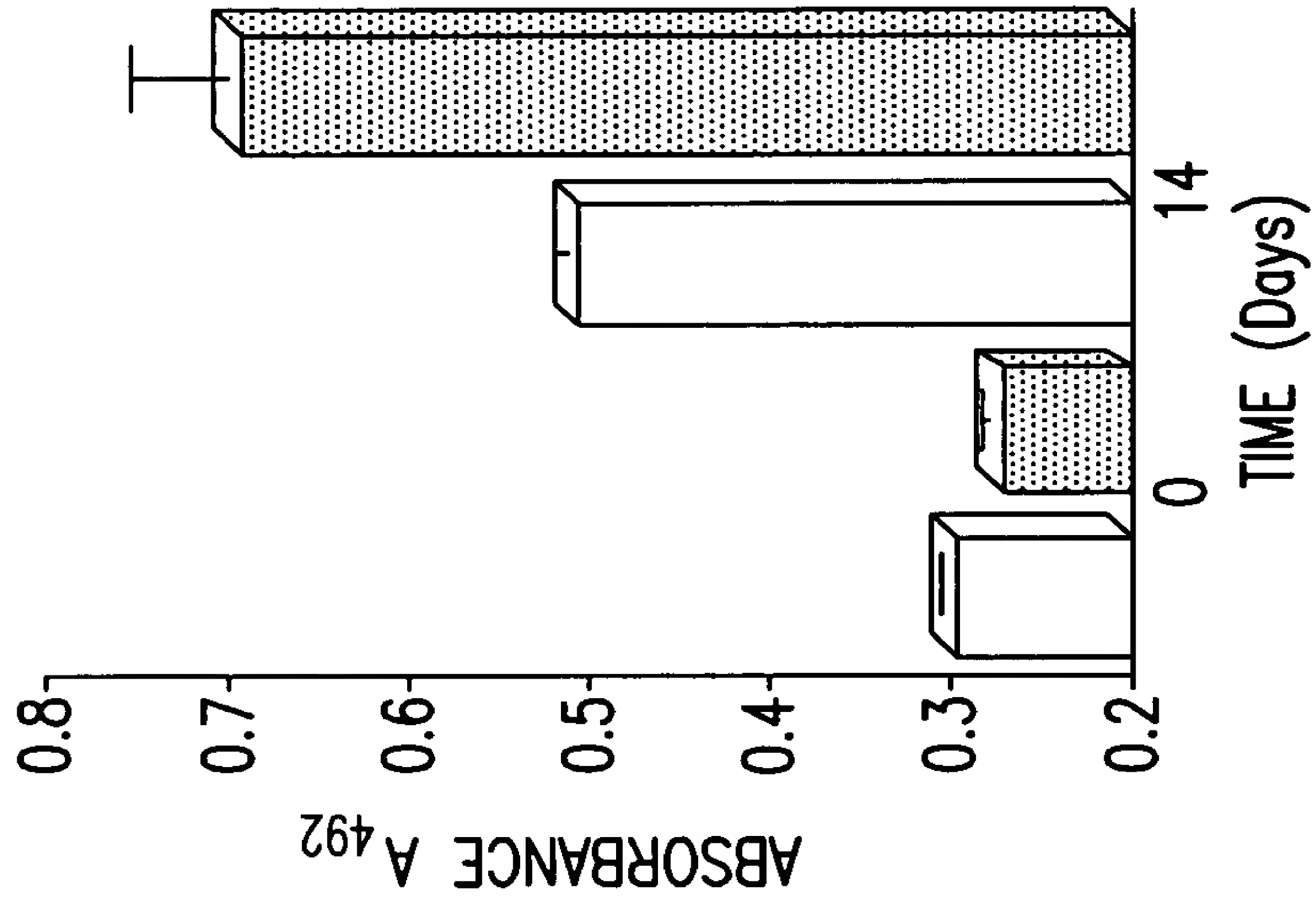


FIG. 16B

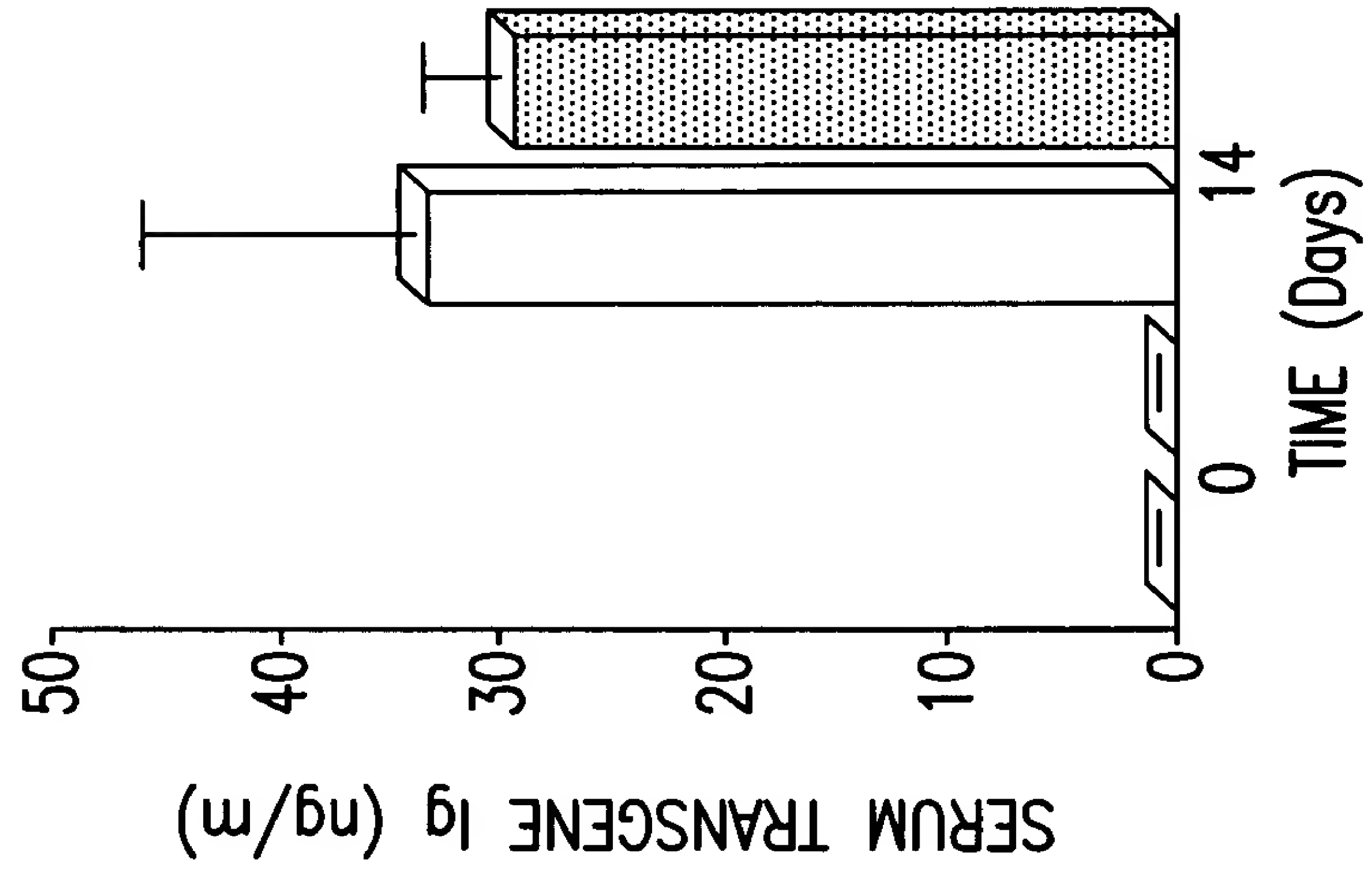


FIG. 16A

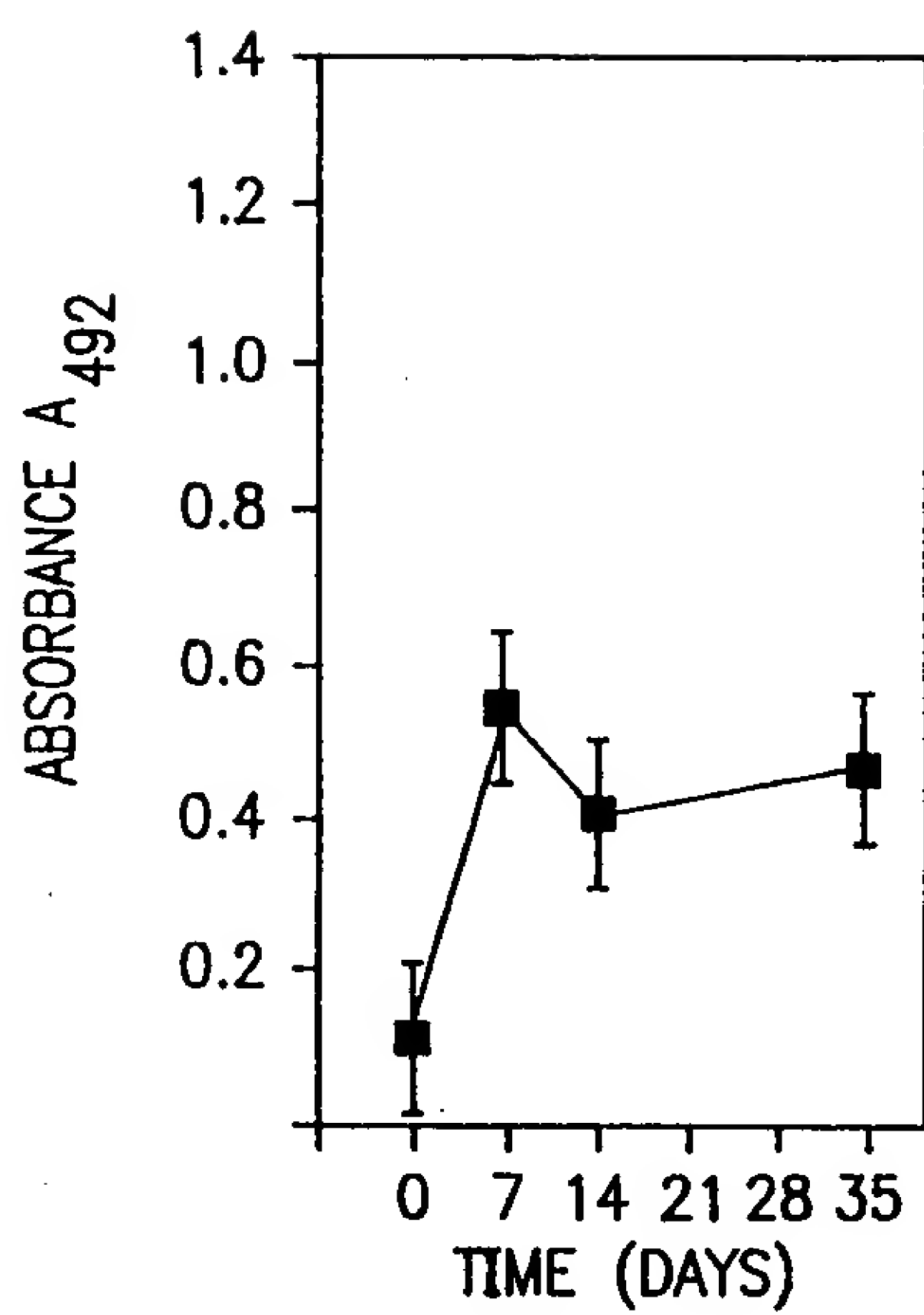


FIG. 17A

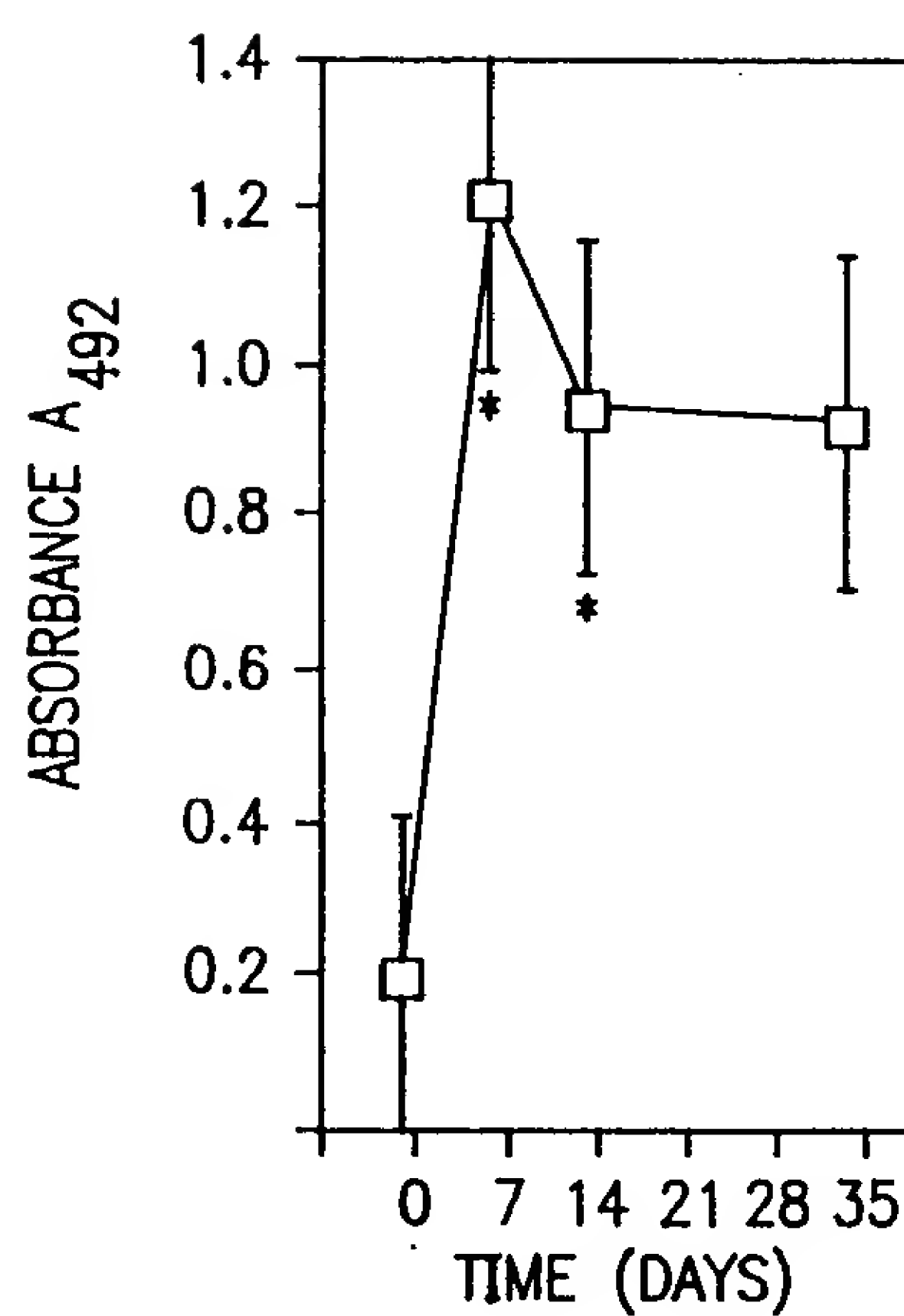


FIG. 17B

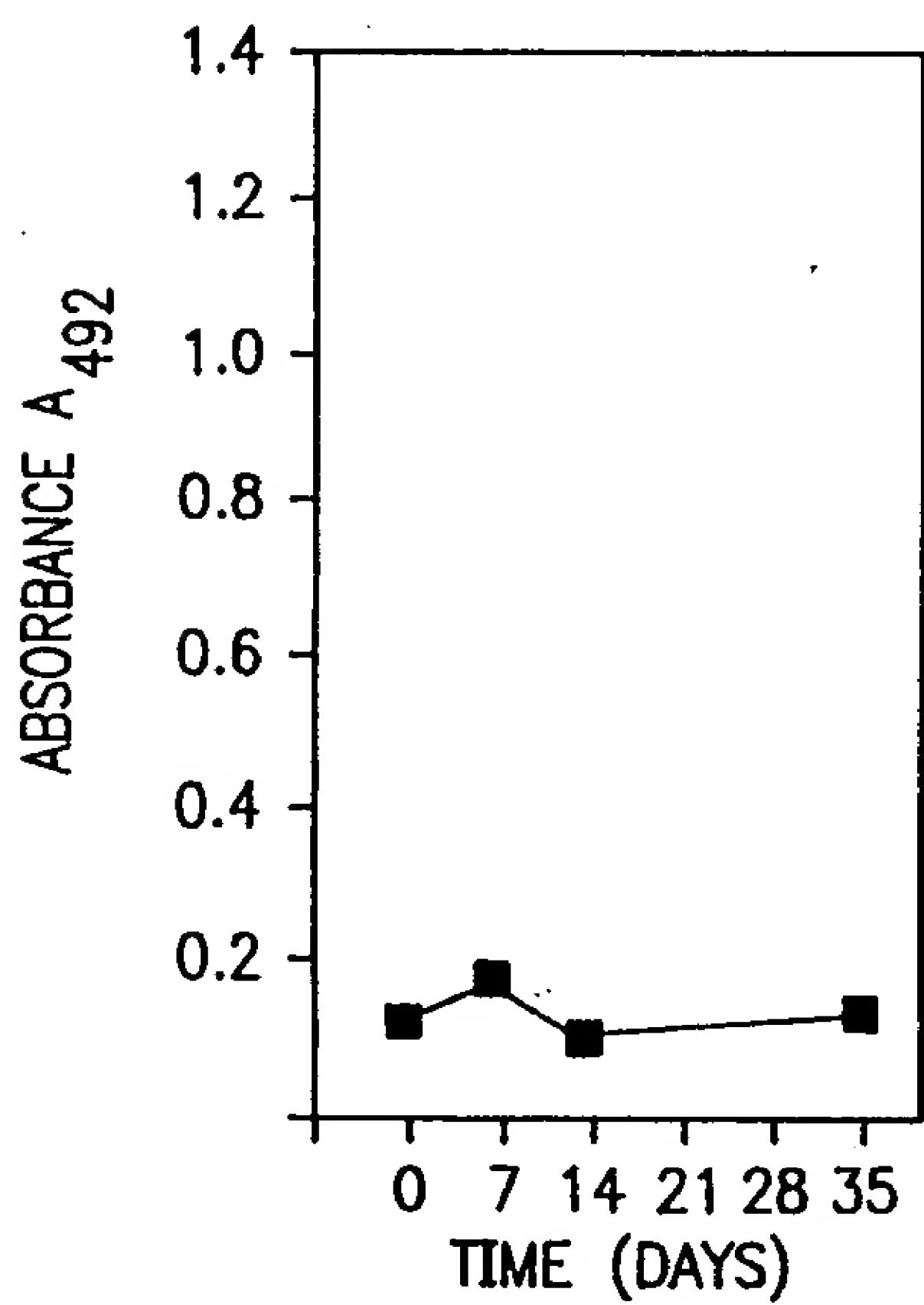


FIG. 17C

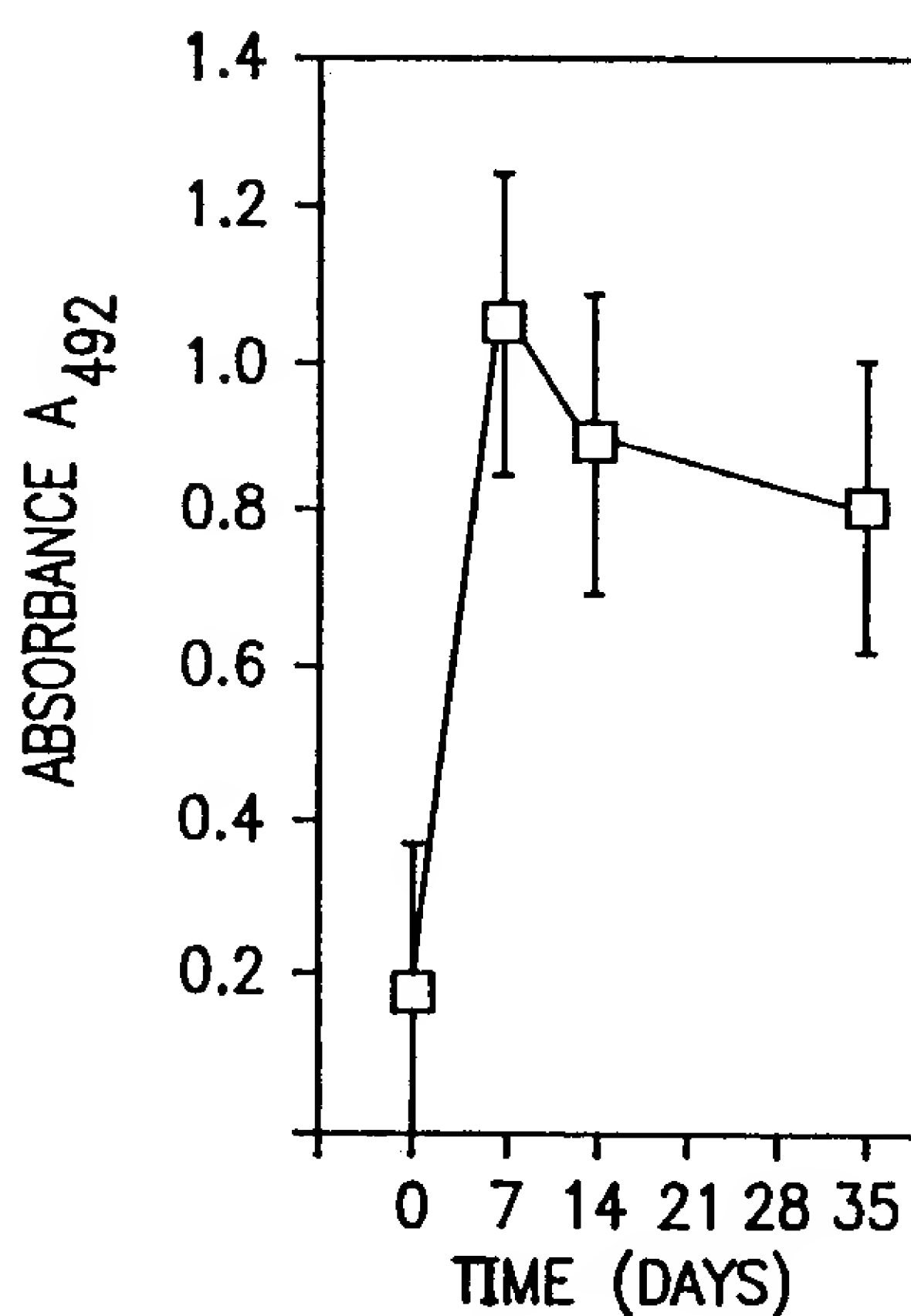


FIG. 17D

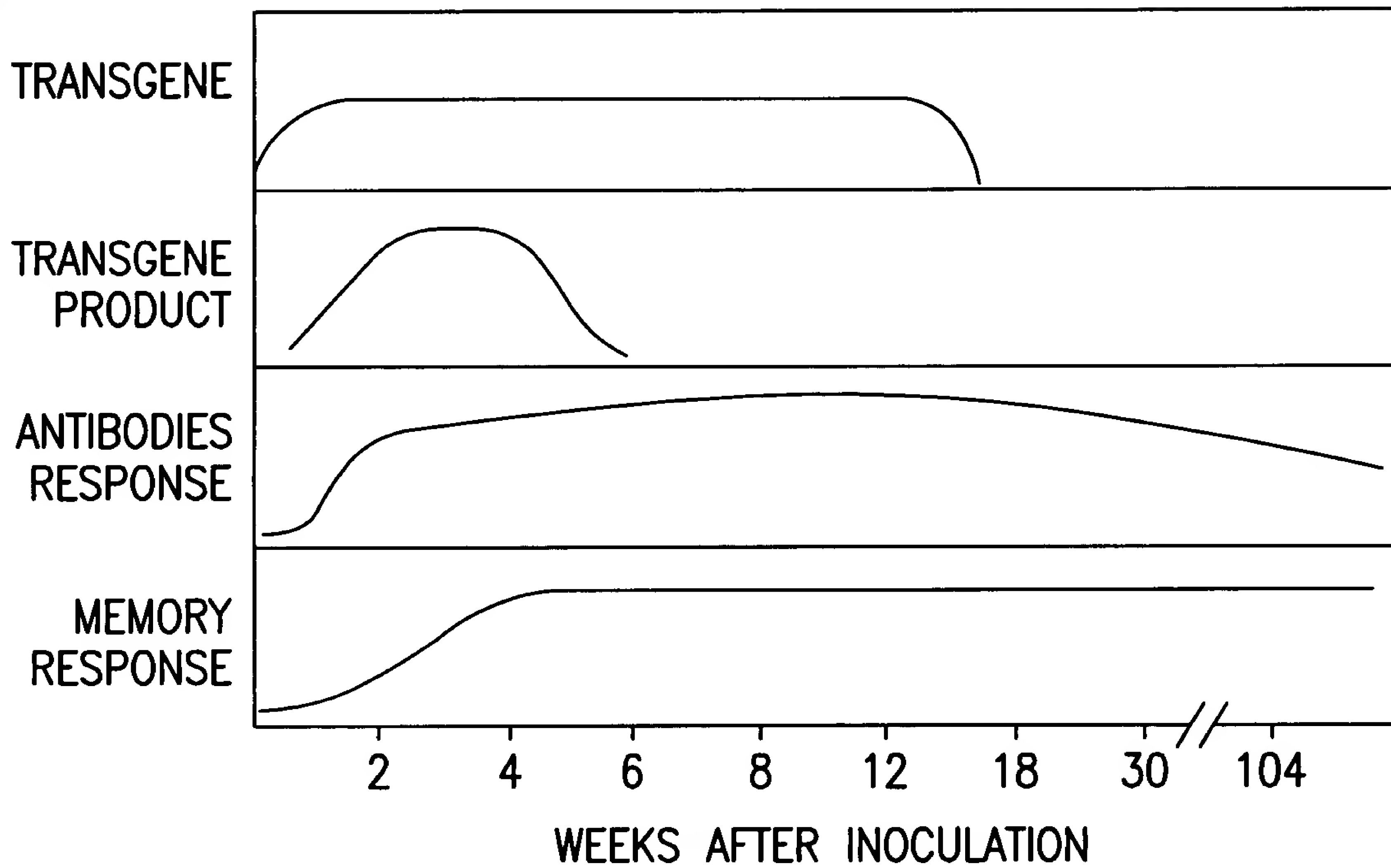


FIG.18

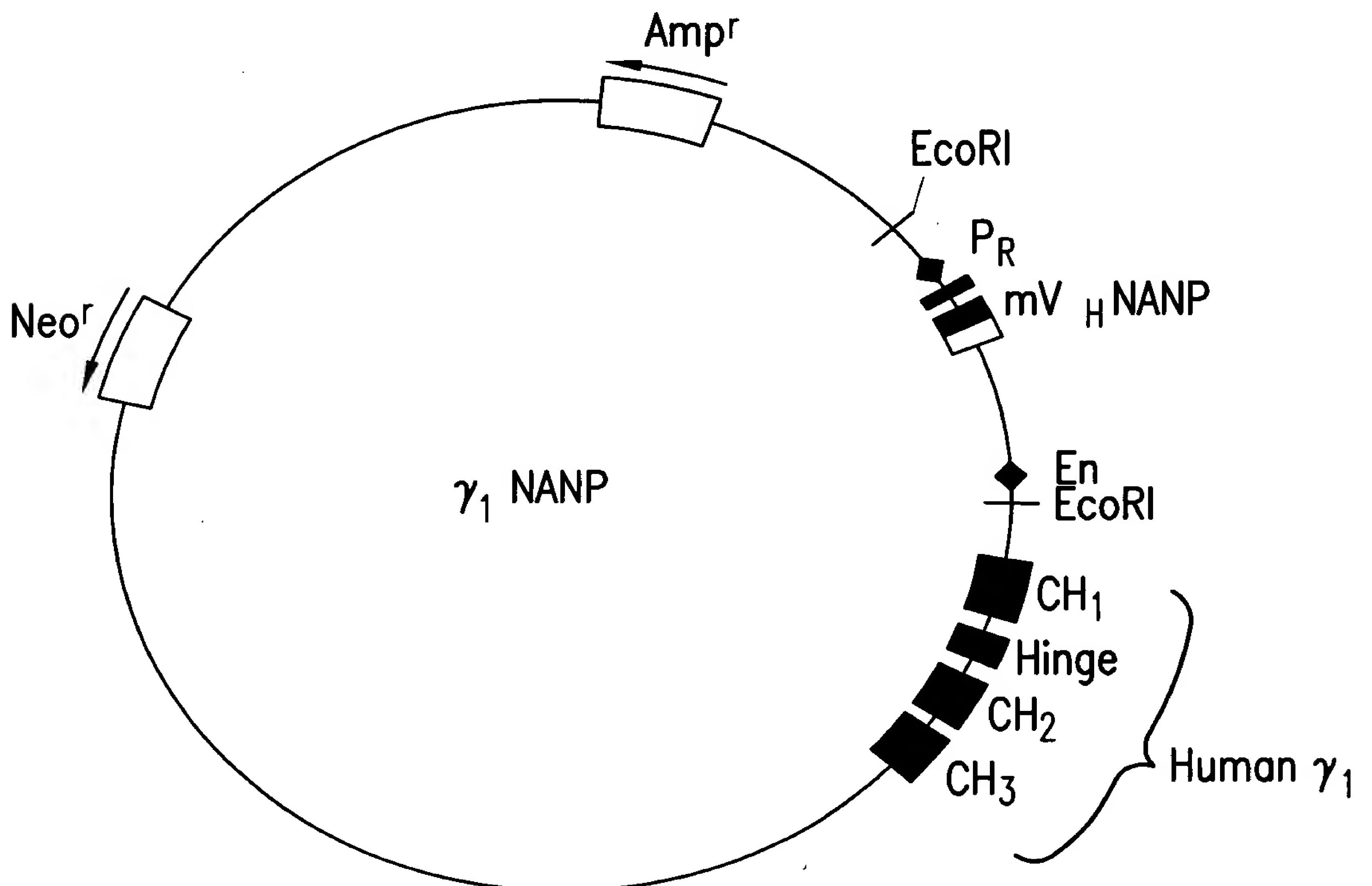


FIG.19A

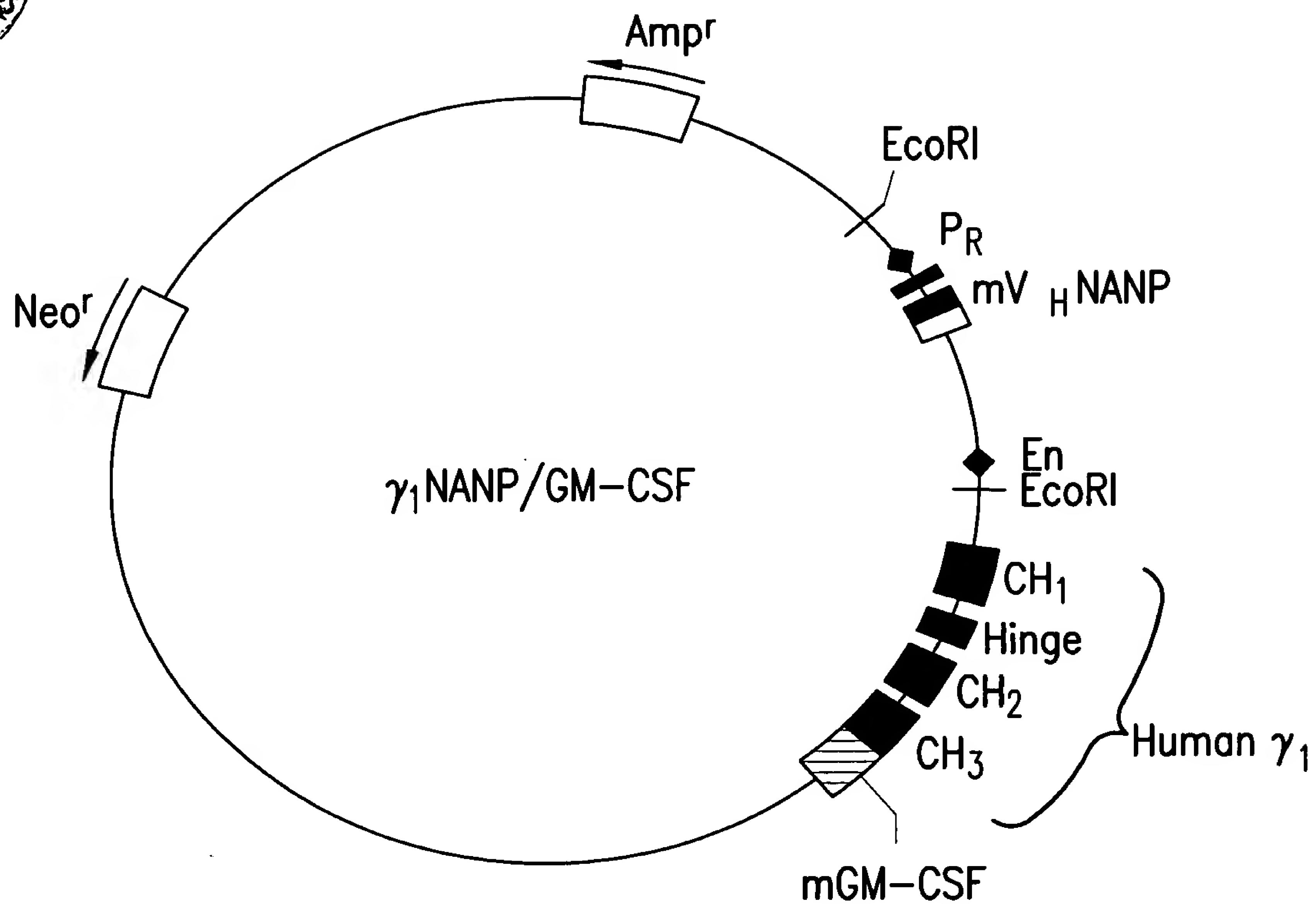


FIG. 19B

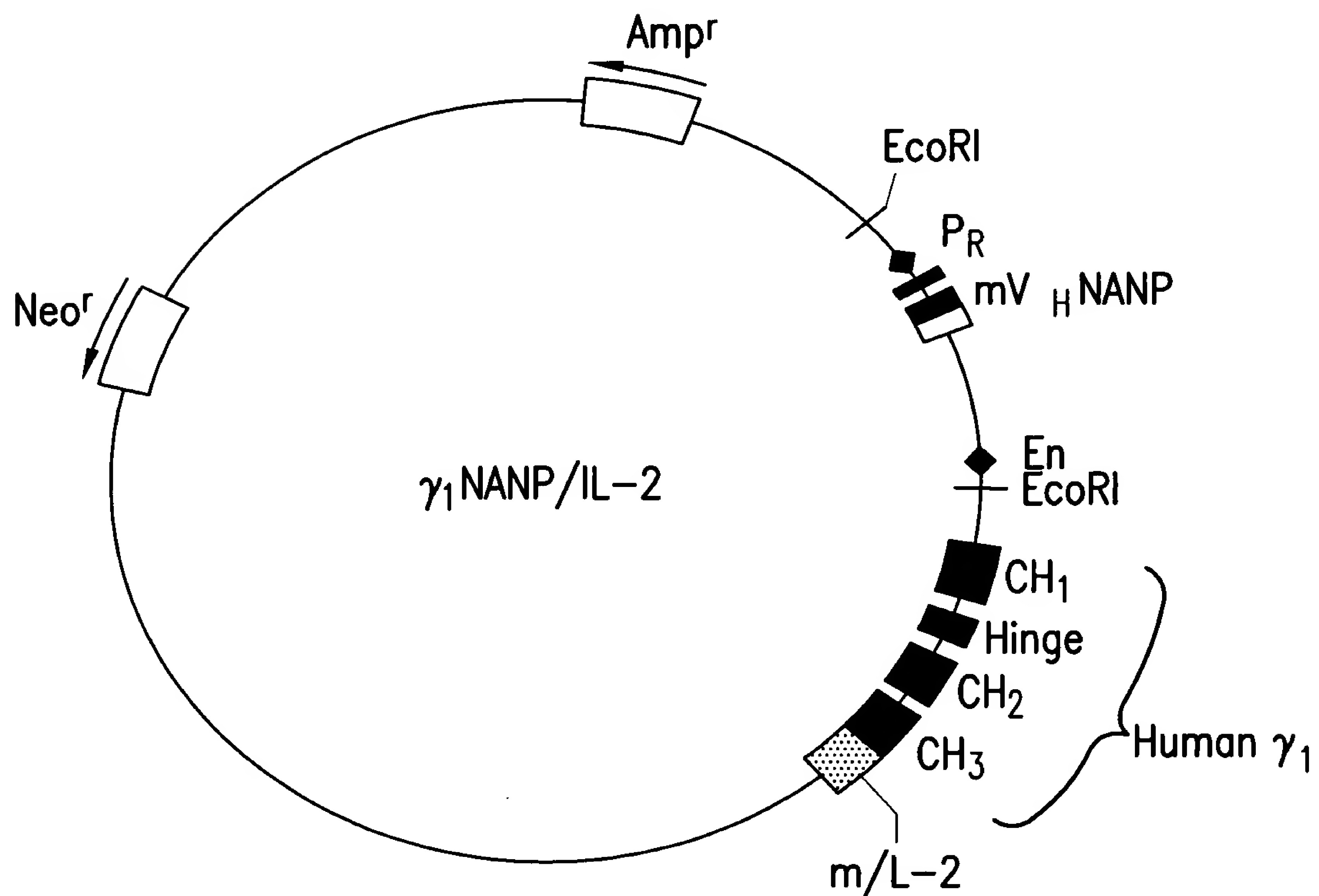


FIG. 19C

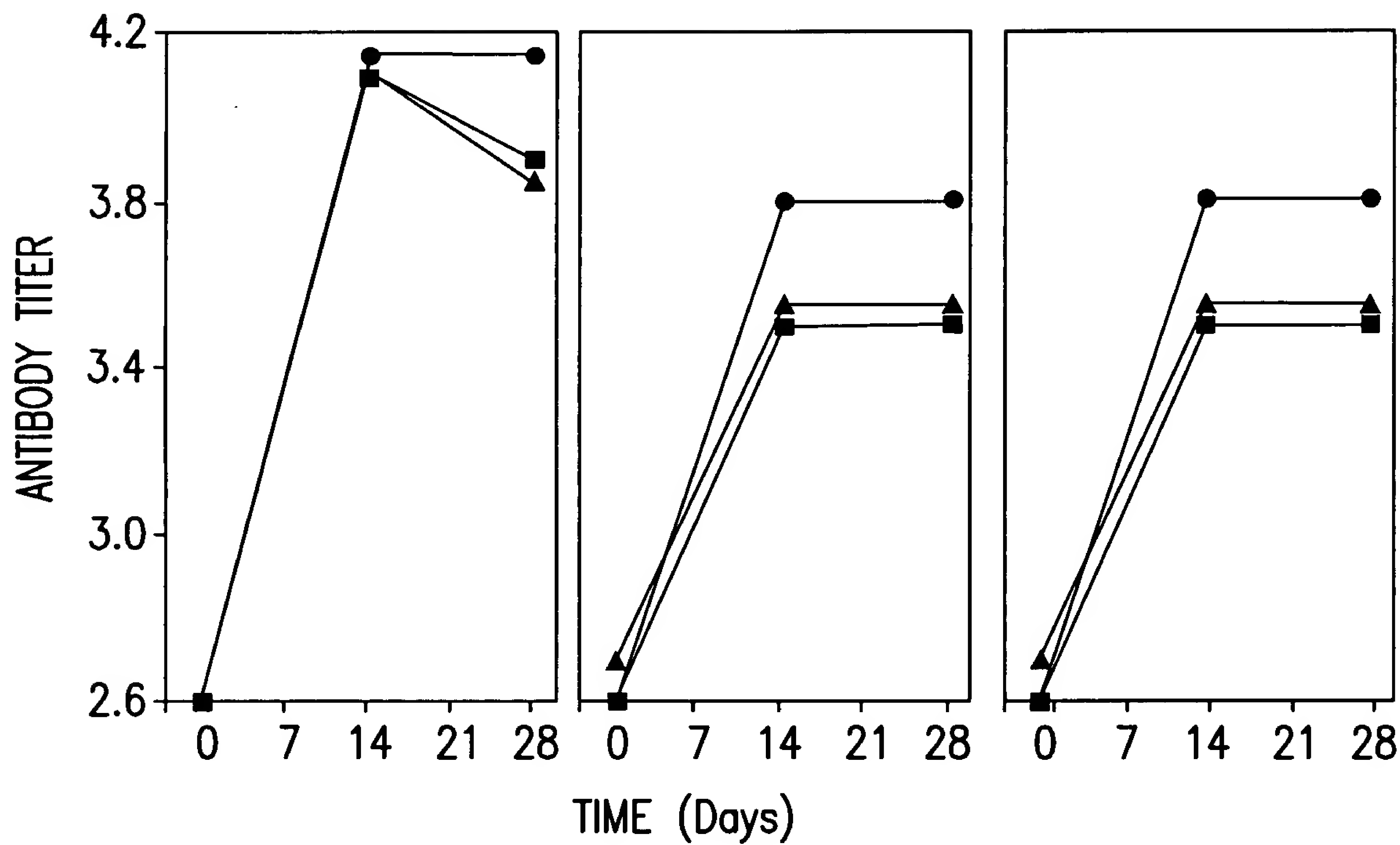


FIG. 20A

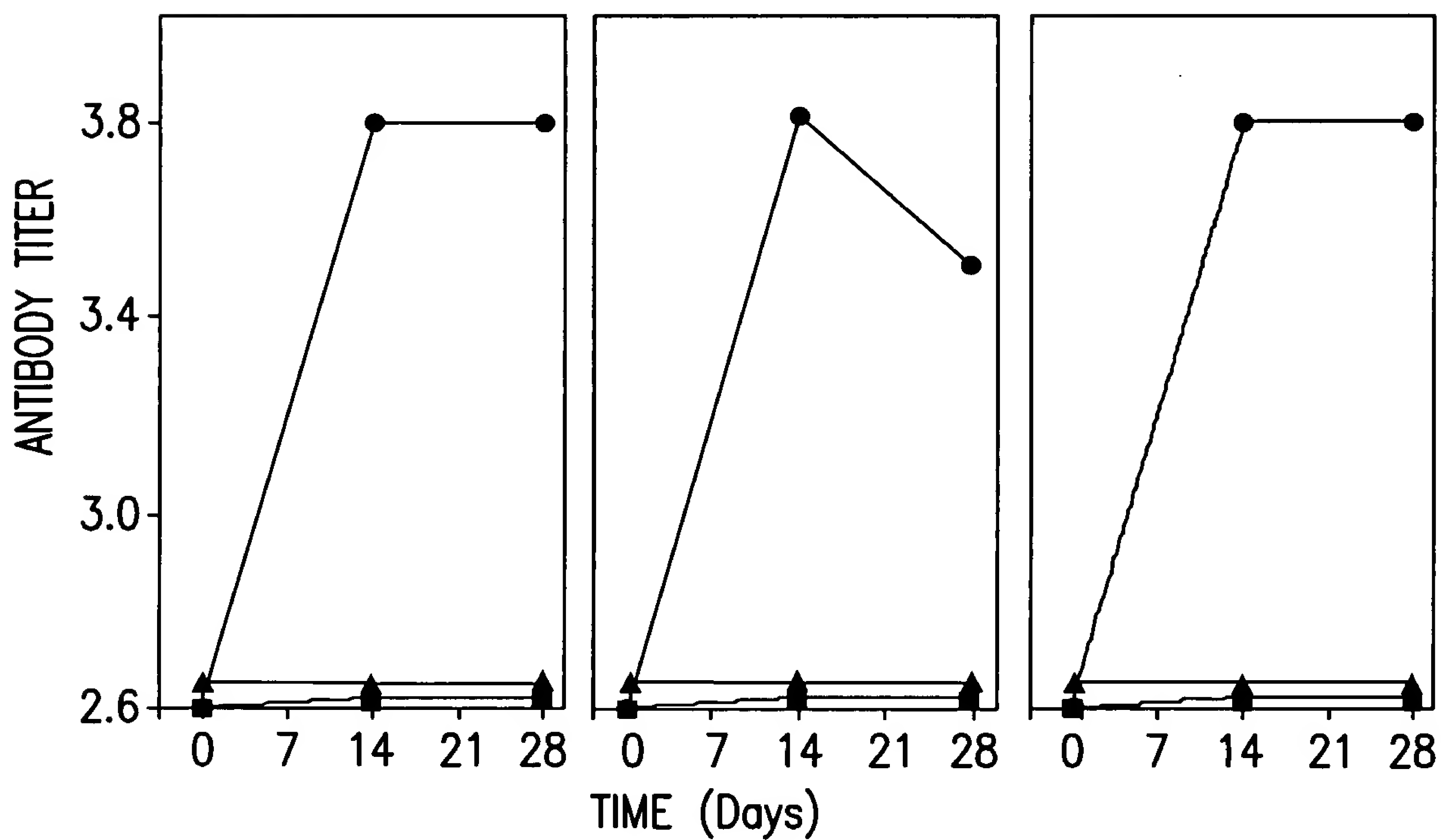
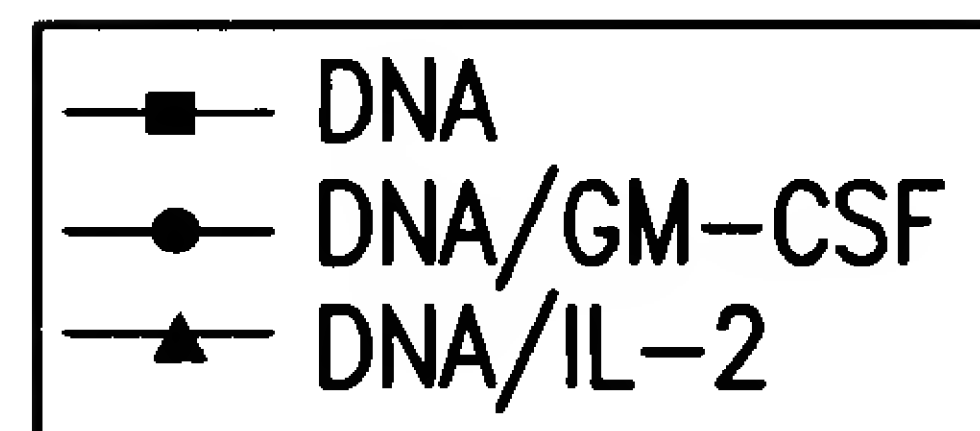


FIG. 20B

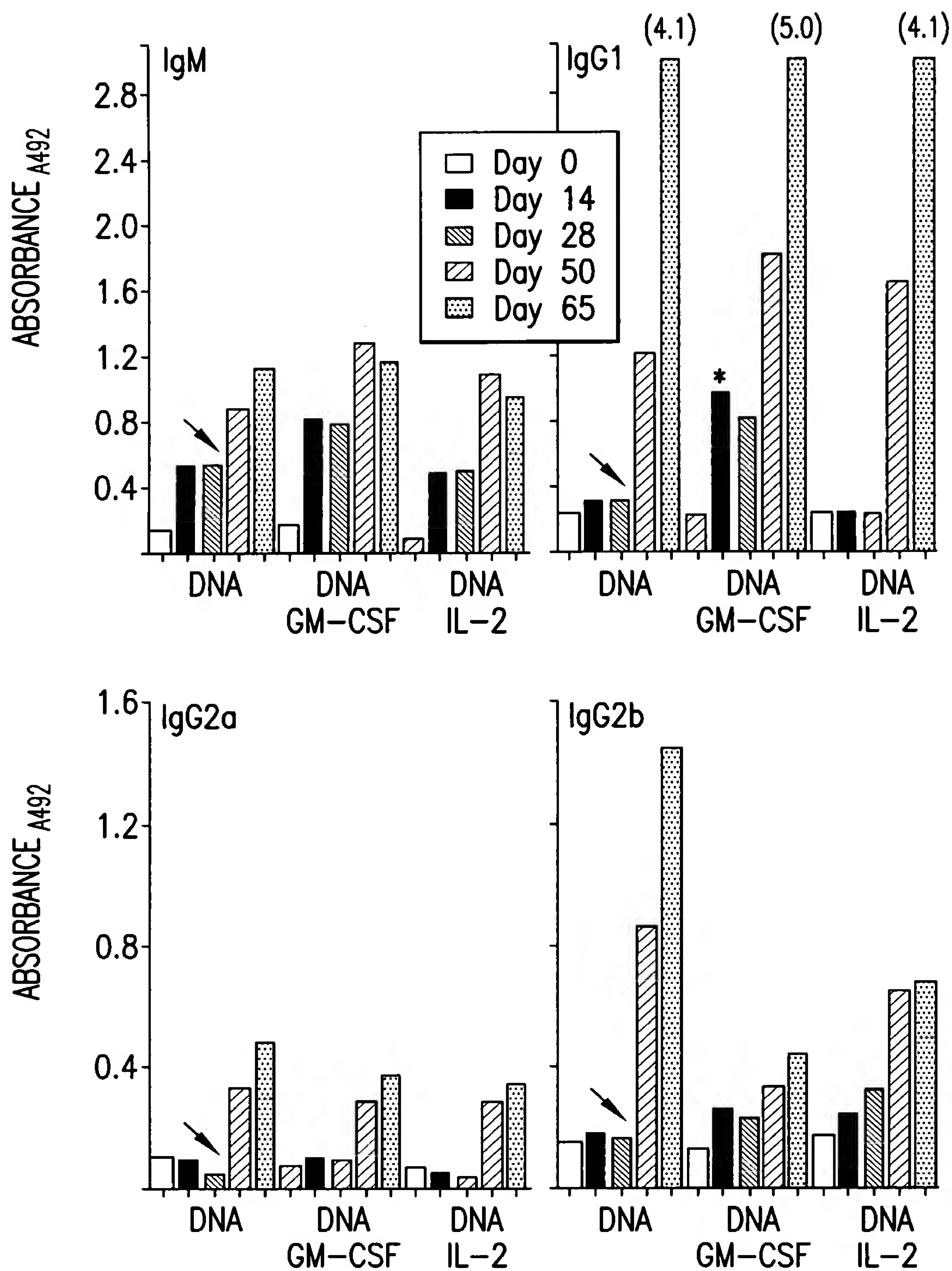


FIG.21

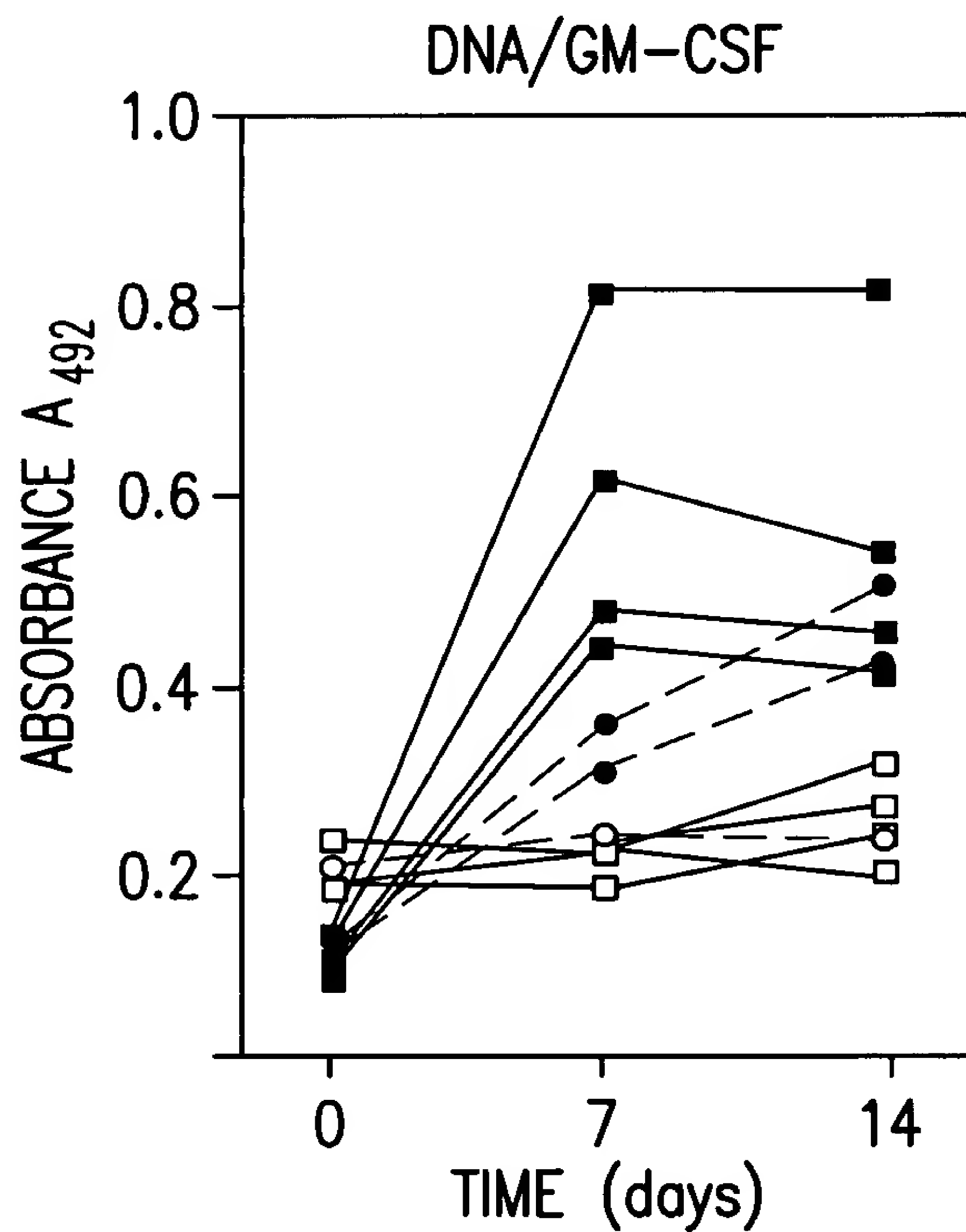
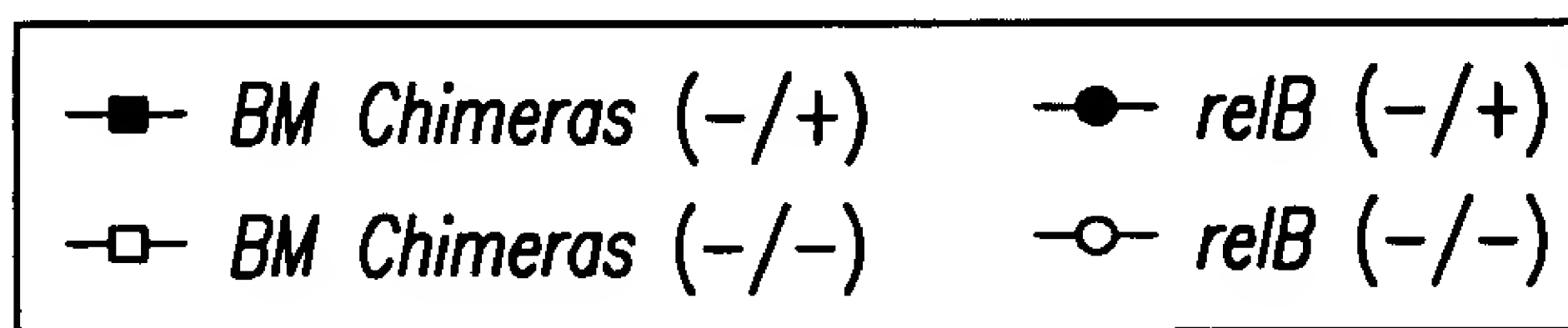


FIG.22A

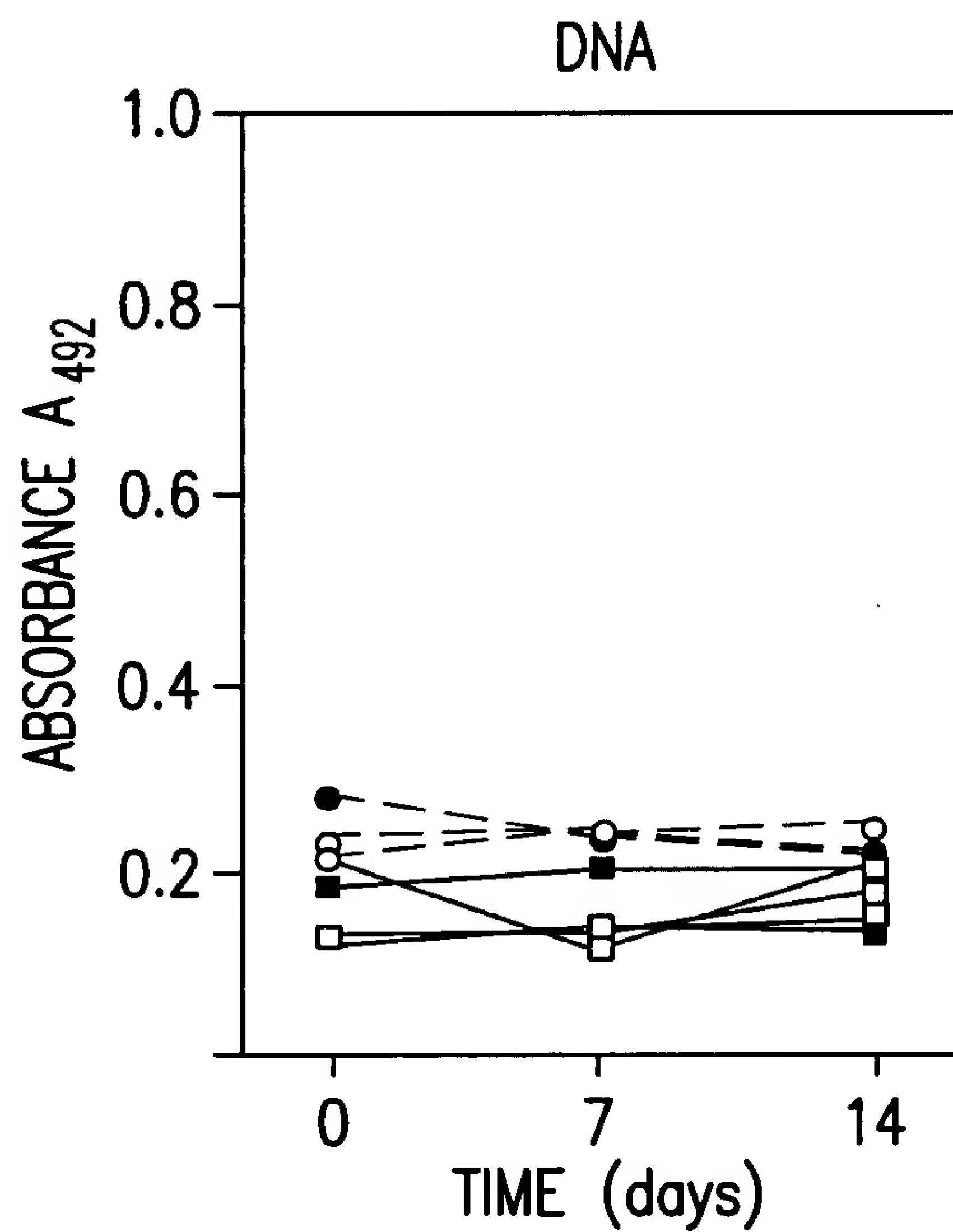


FIG.22B

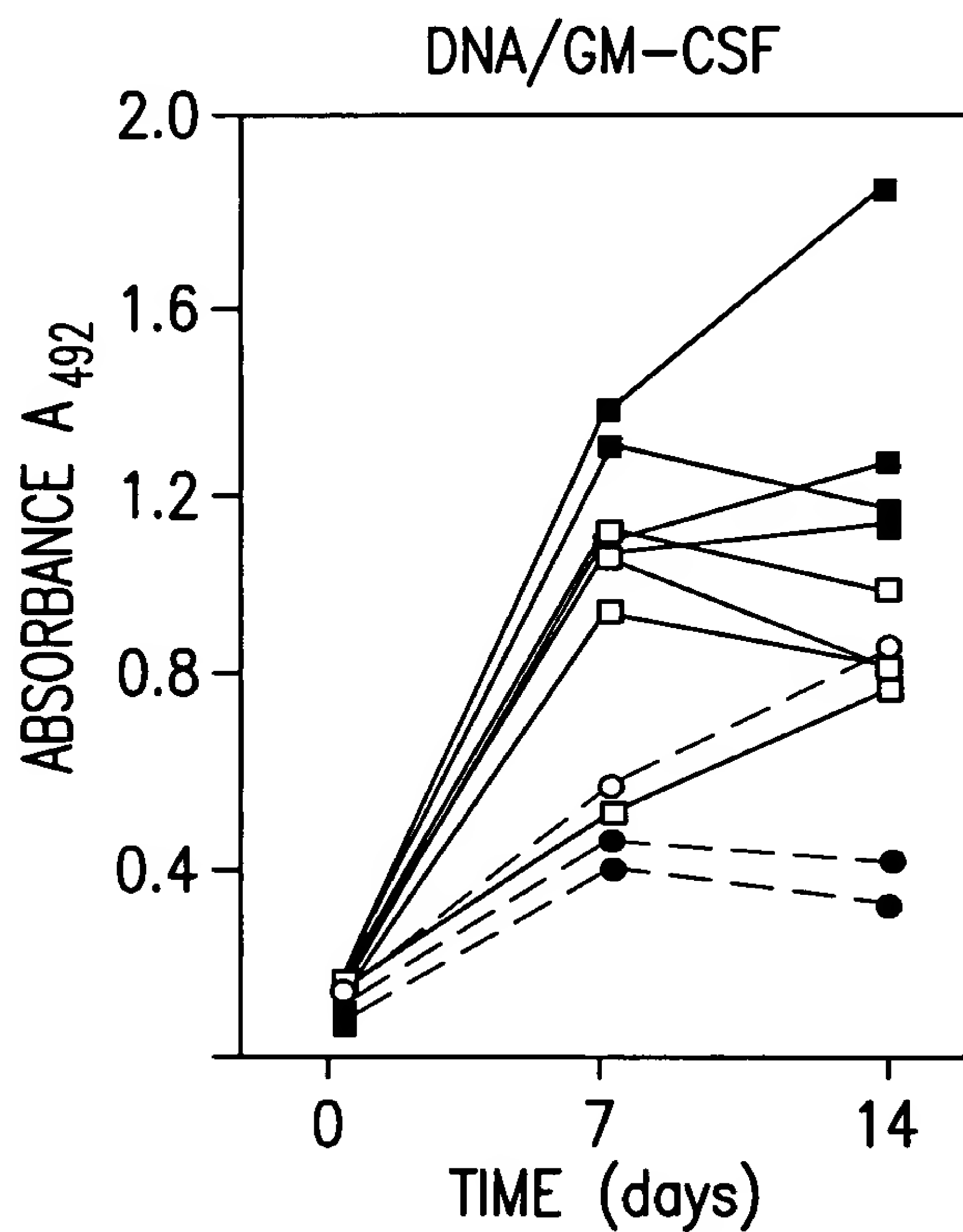


FIG.22C

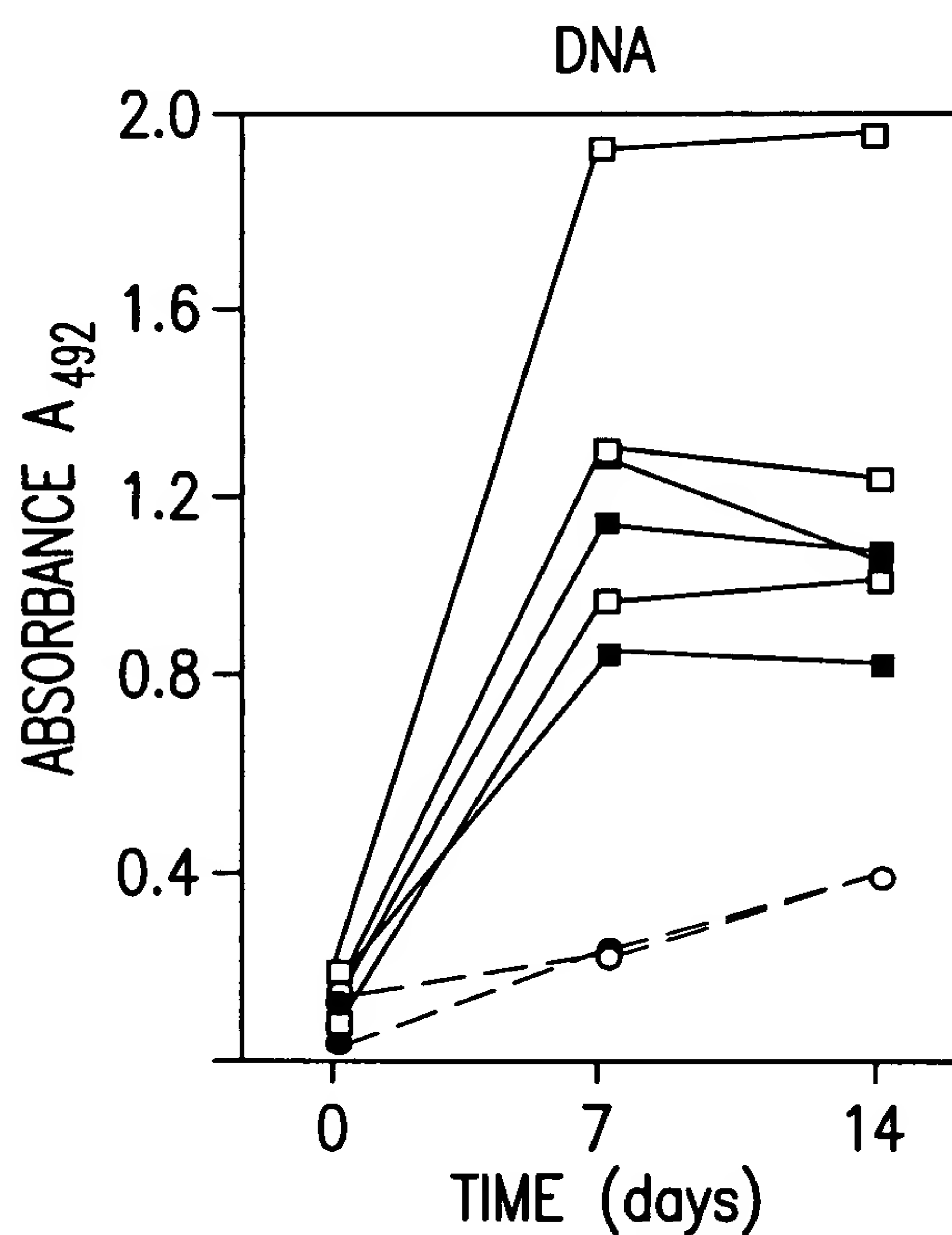
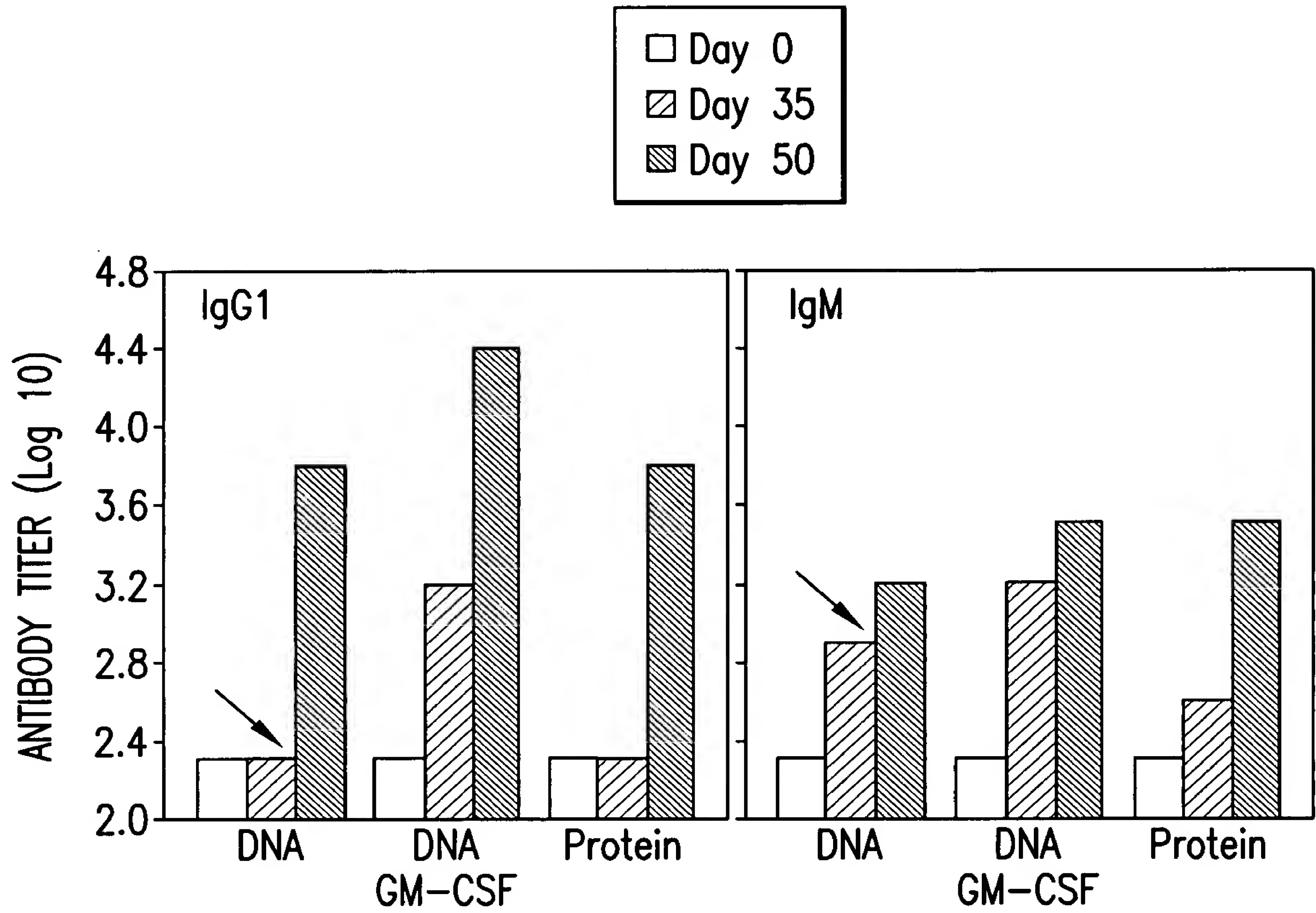


FIG.22D



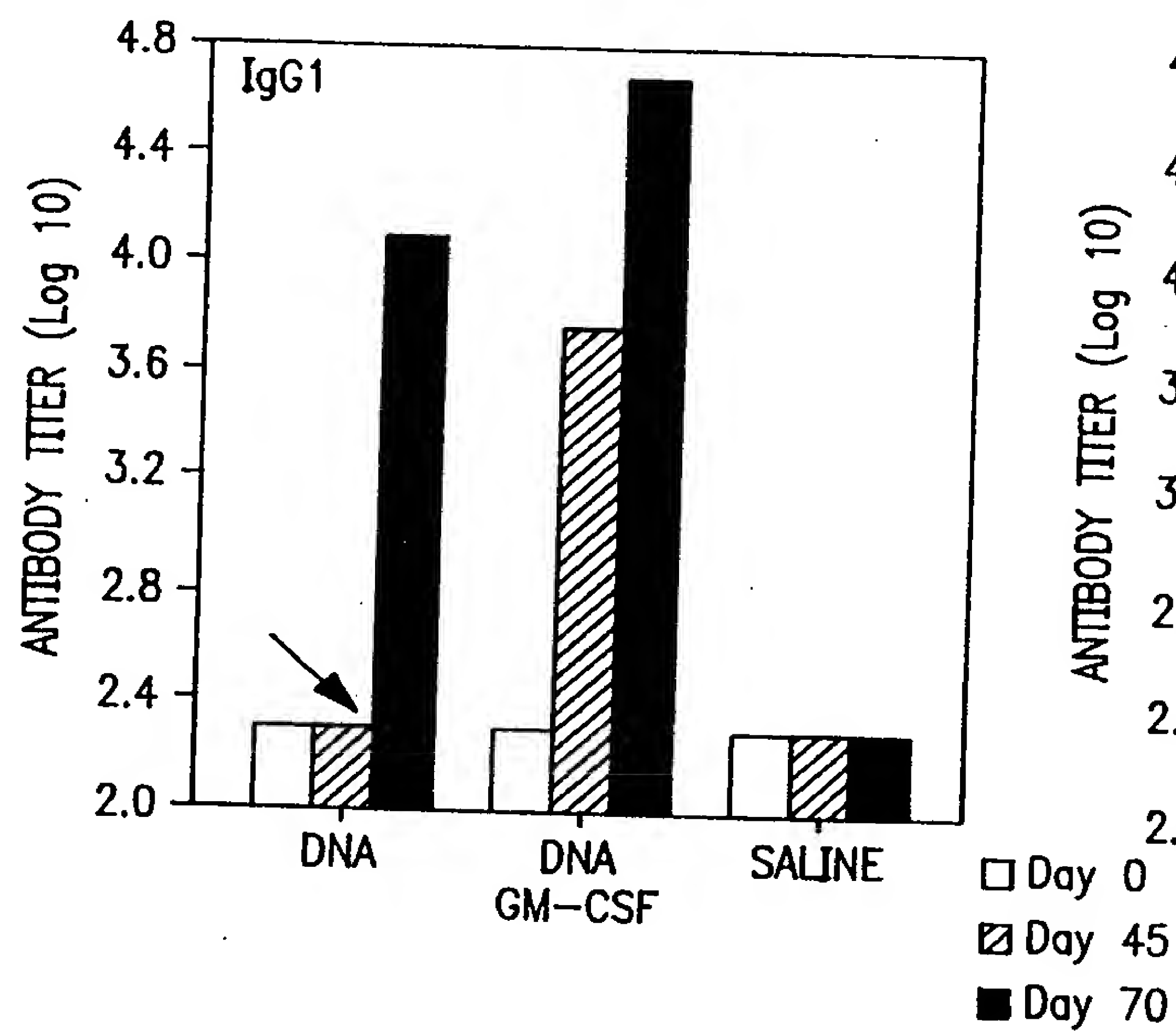


FIG. 24A

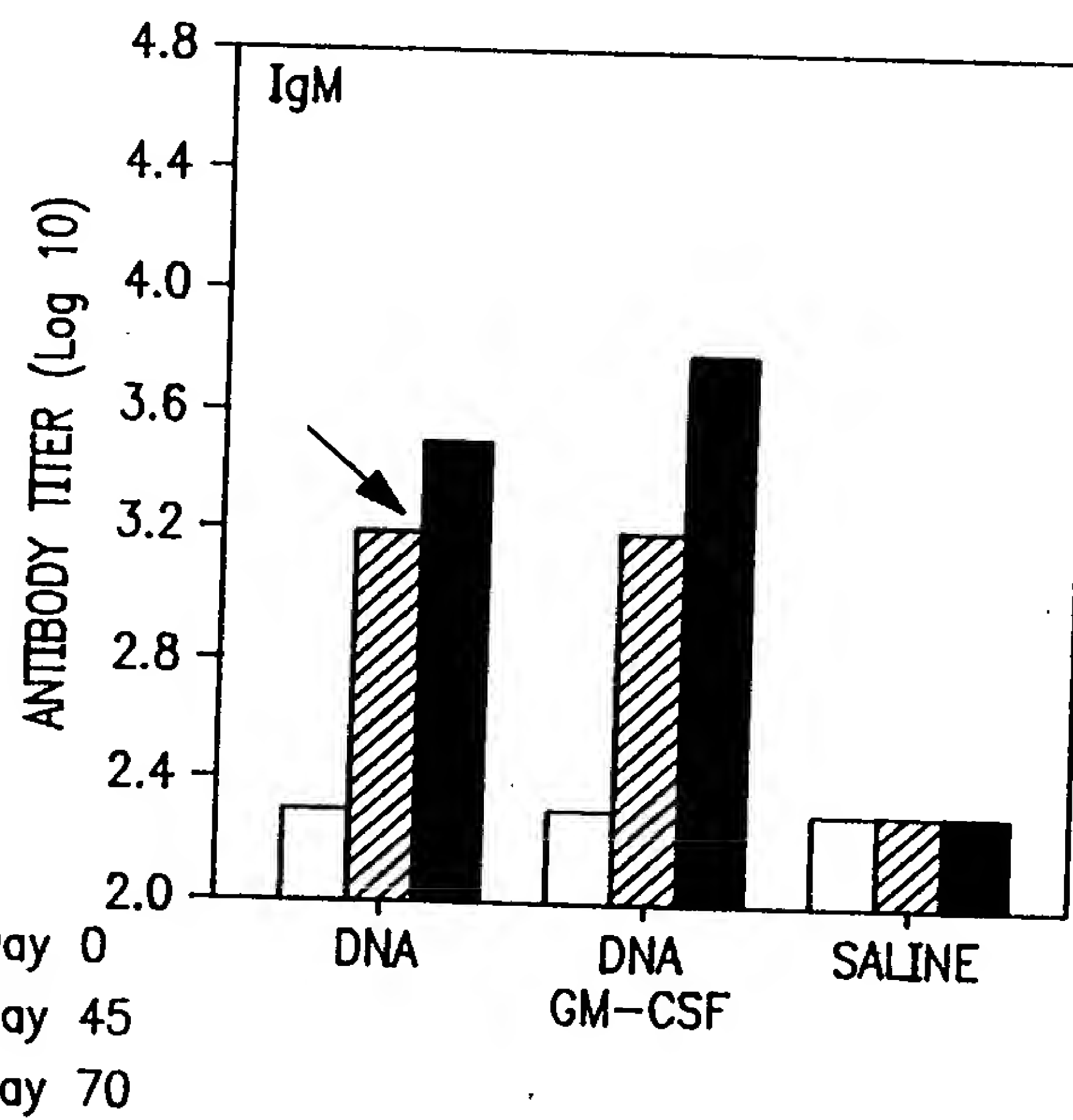


FIG. 24B

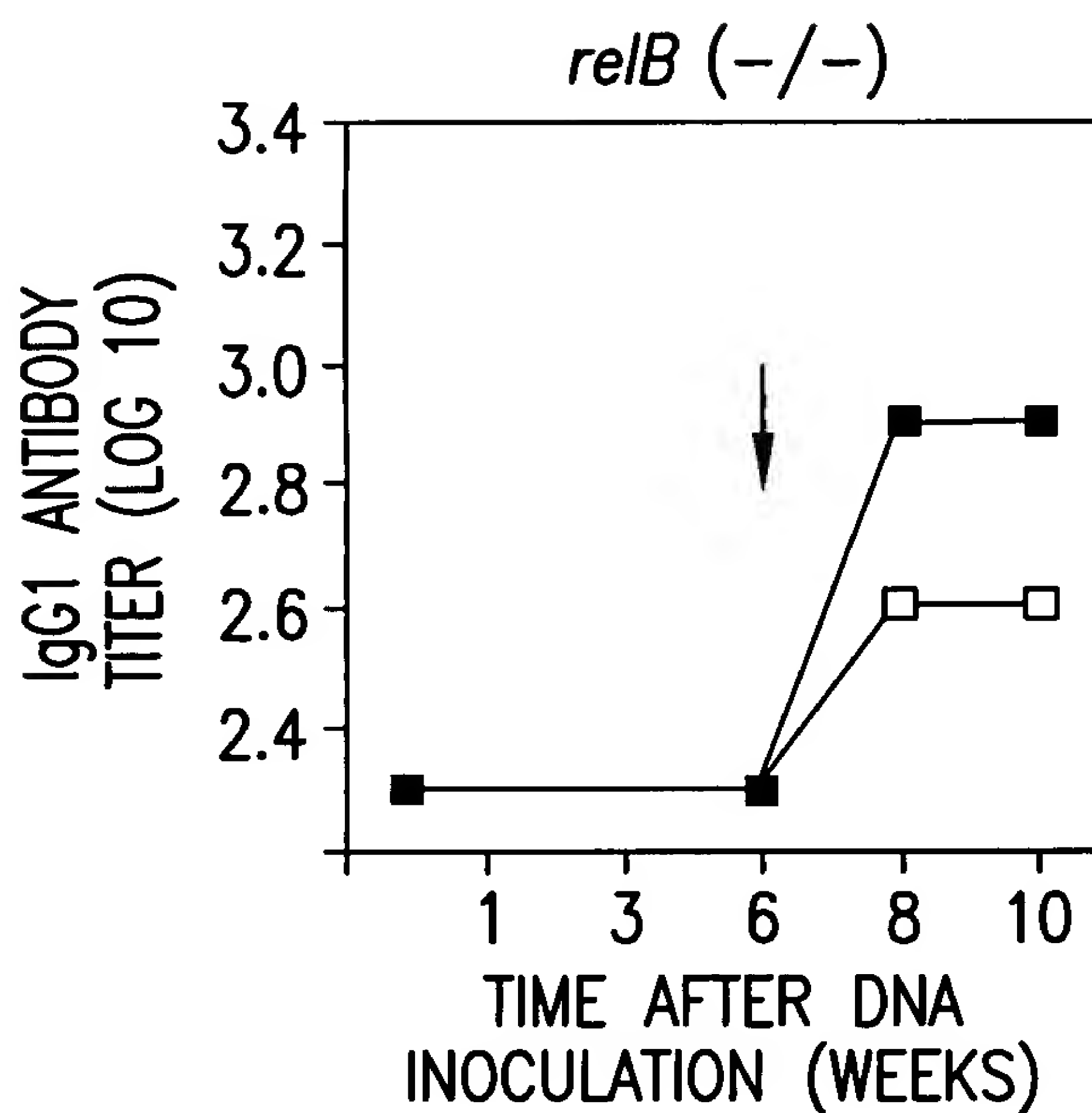
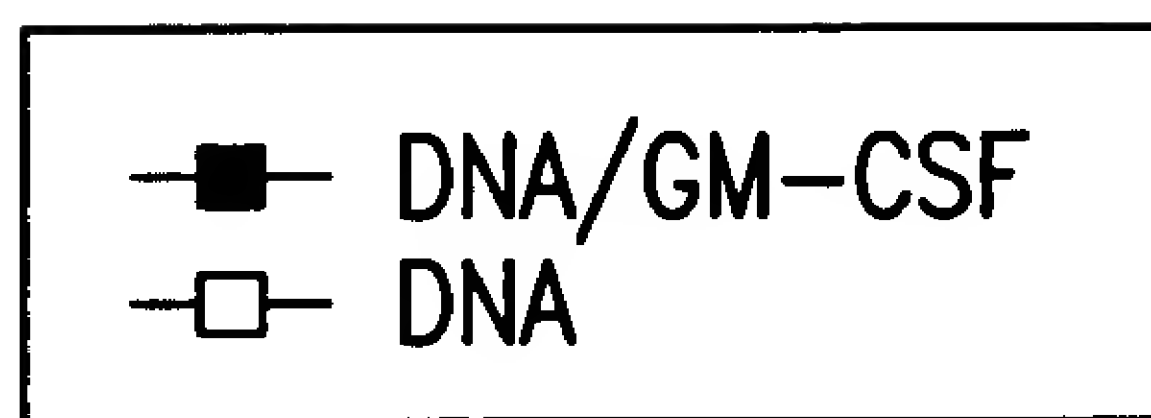


FIG. 25A

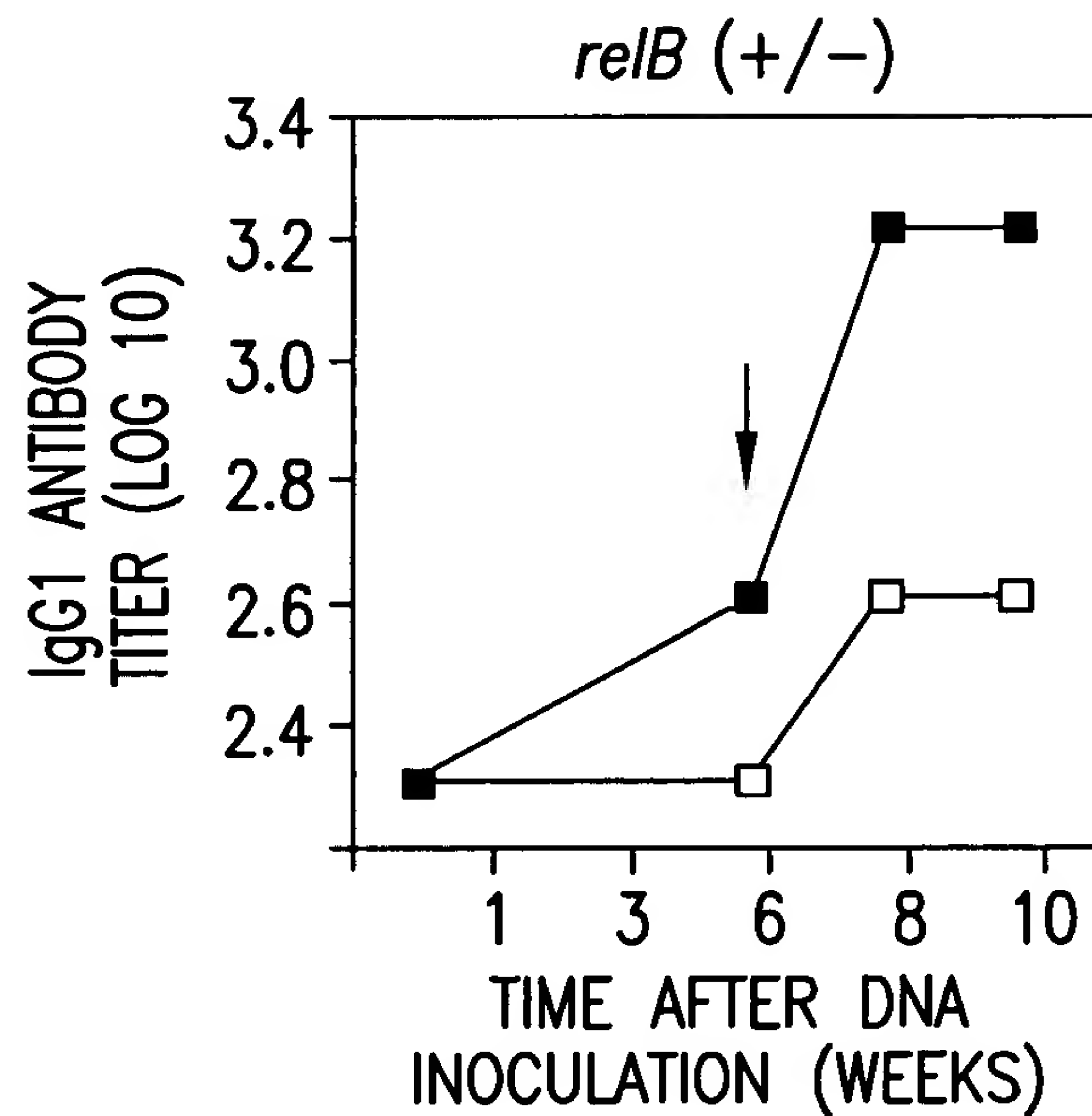


FIG. 25B

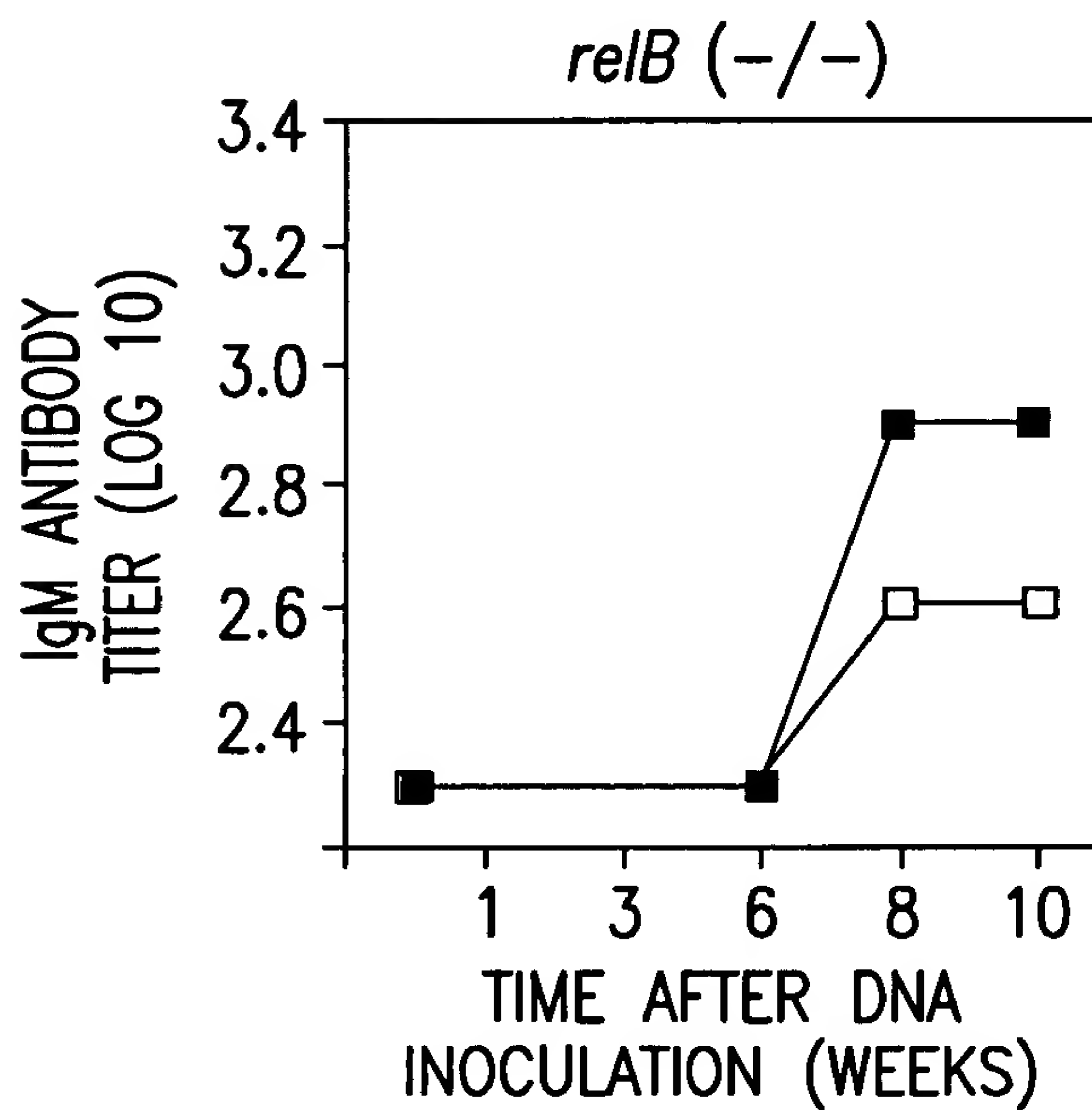


FIG. 25C

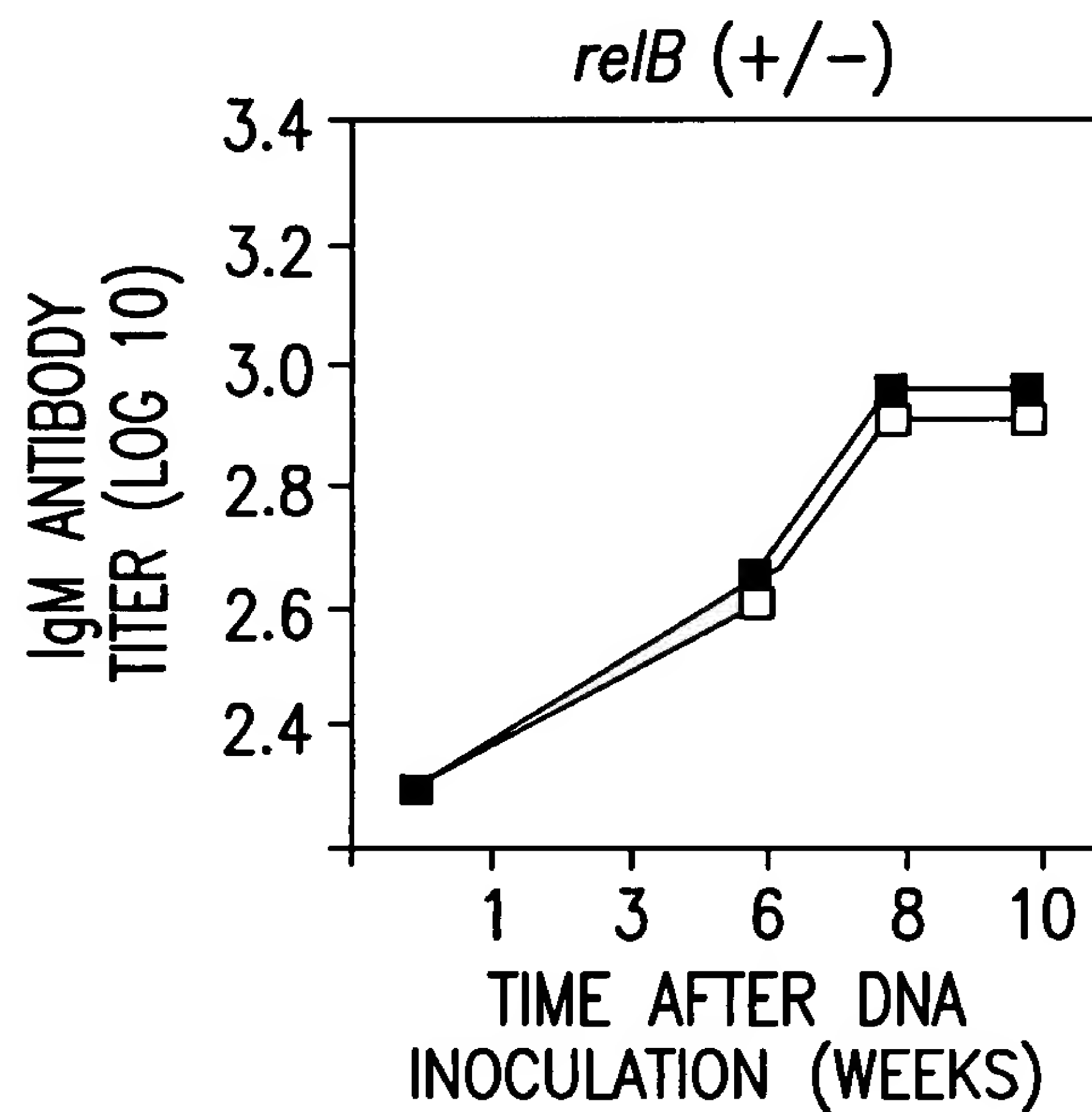


FIG. 25D

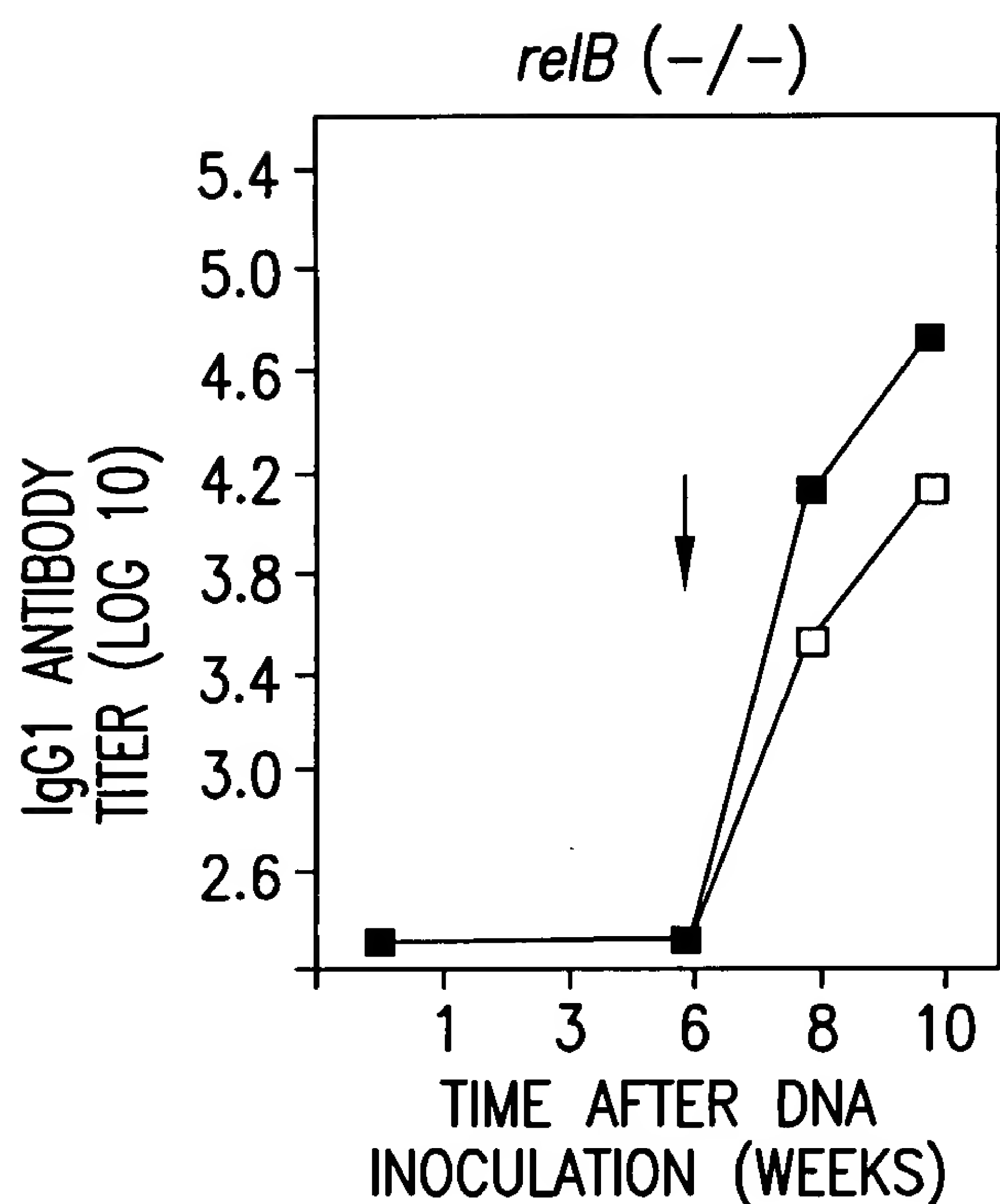
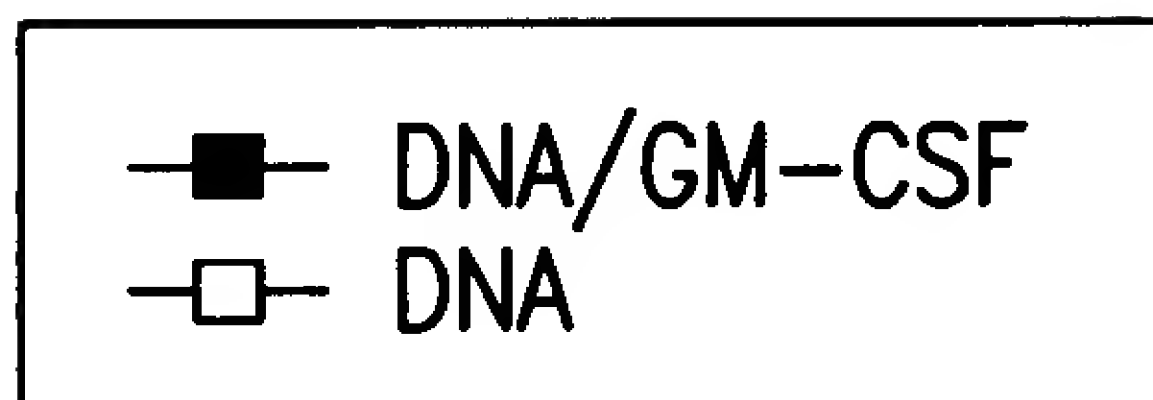


FIG. 26A

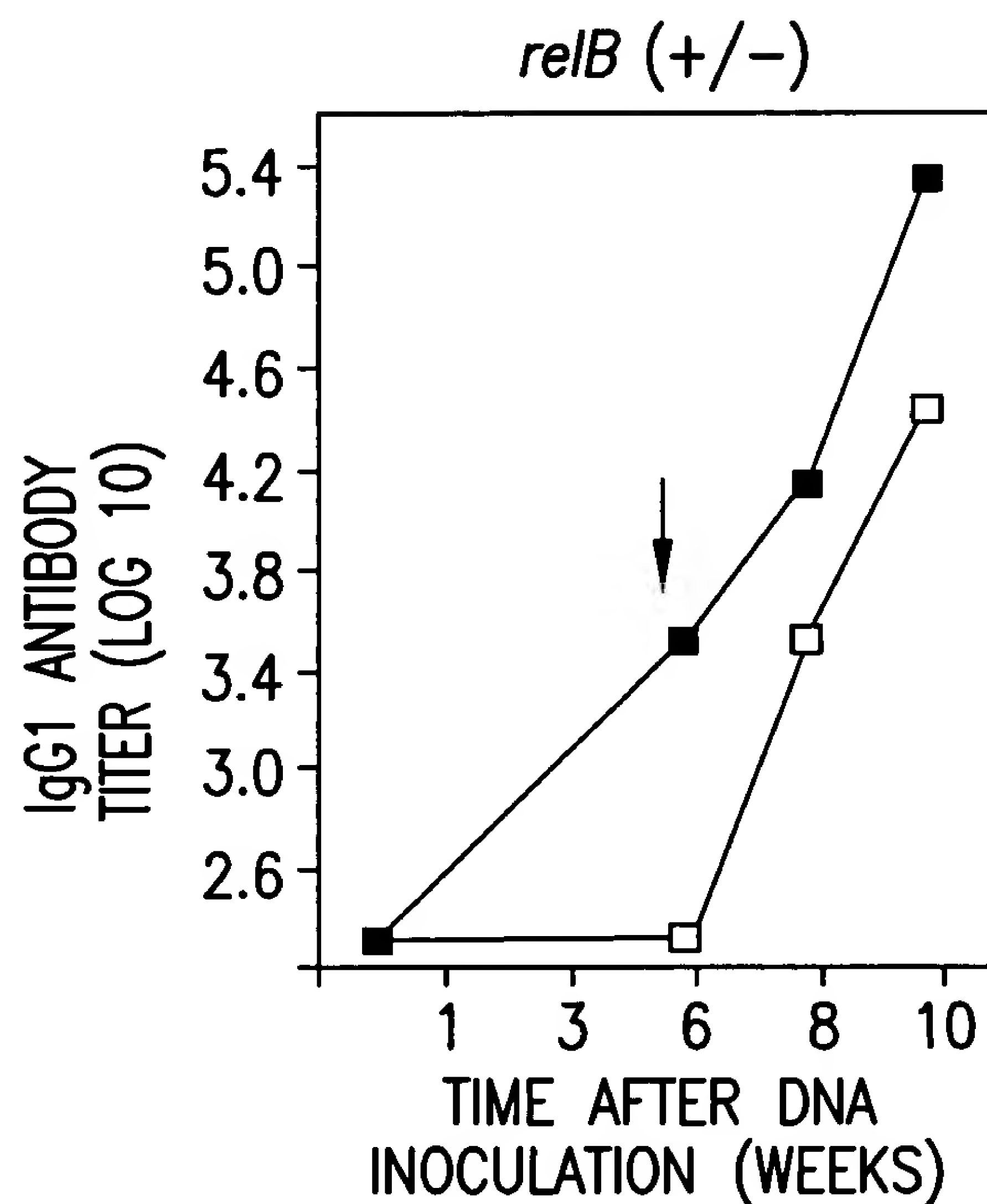


FIG. 26B

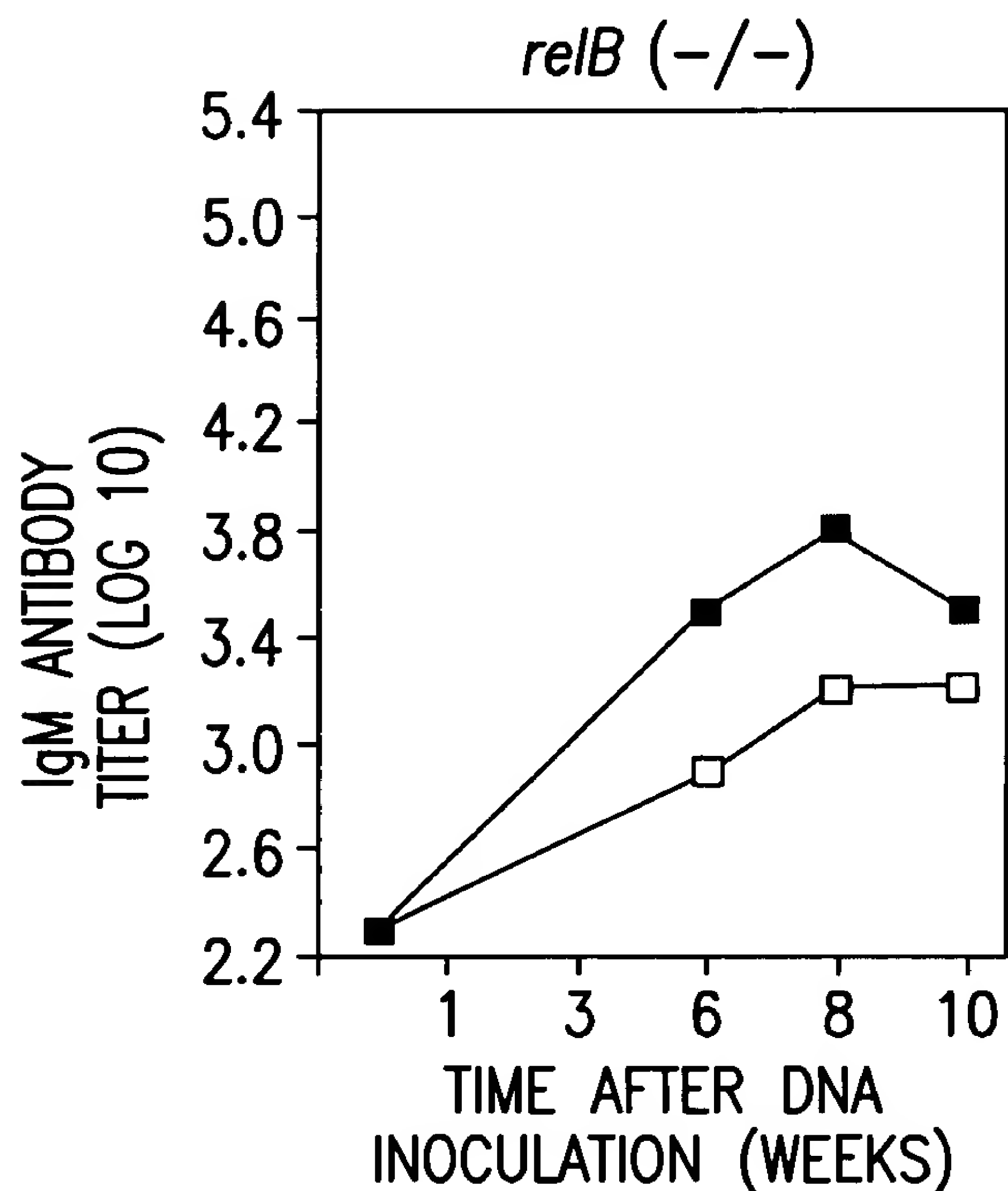


FIG. 26C

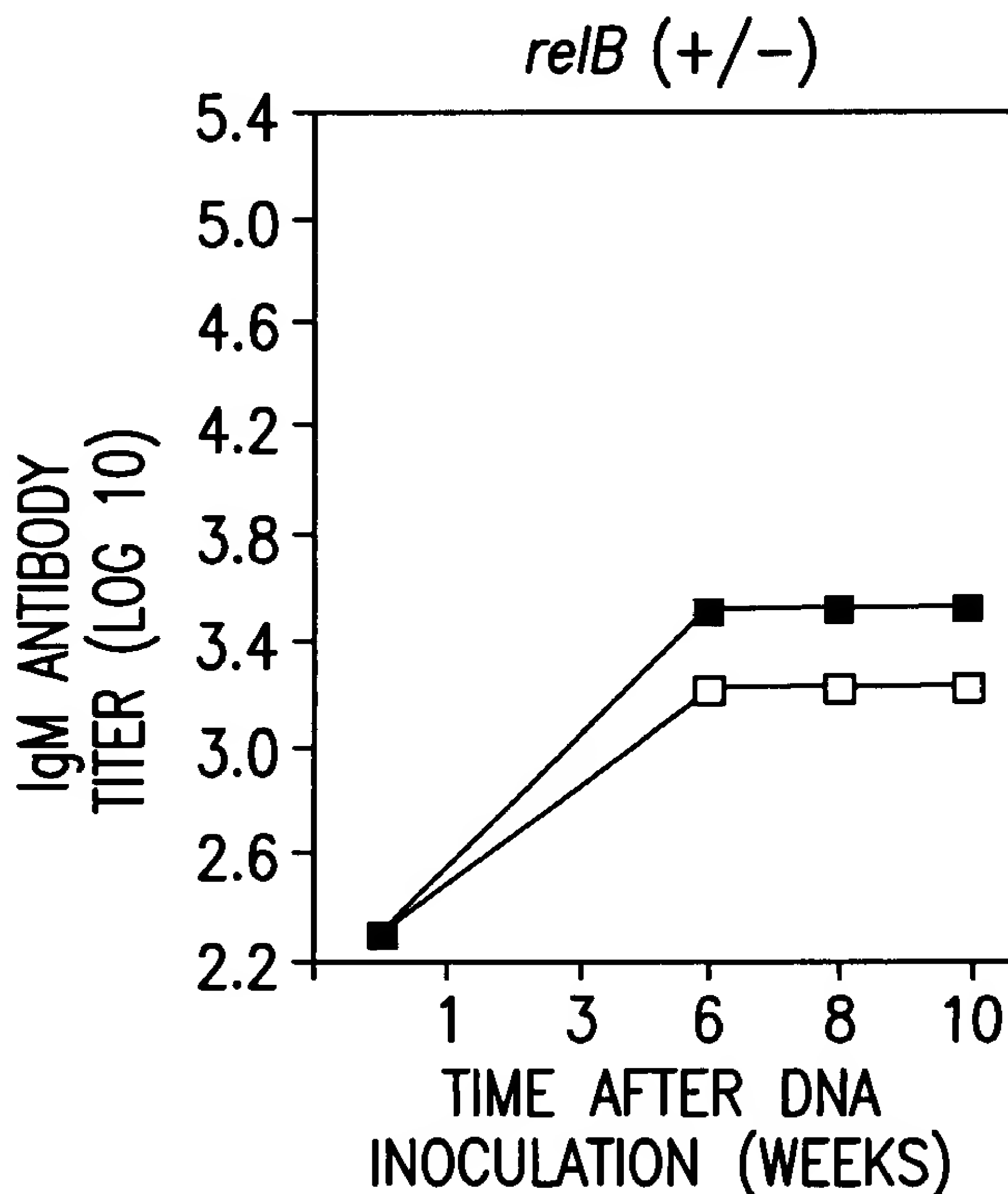


FIG. 26D

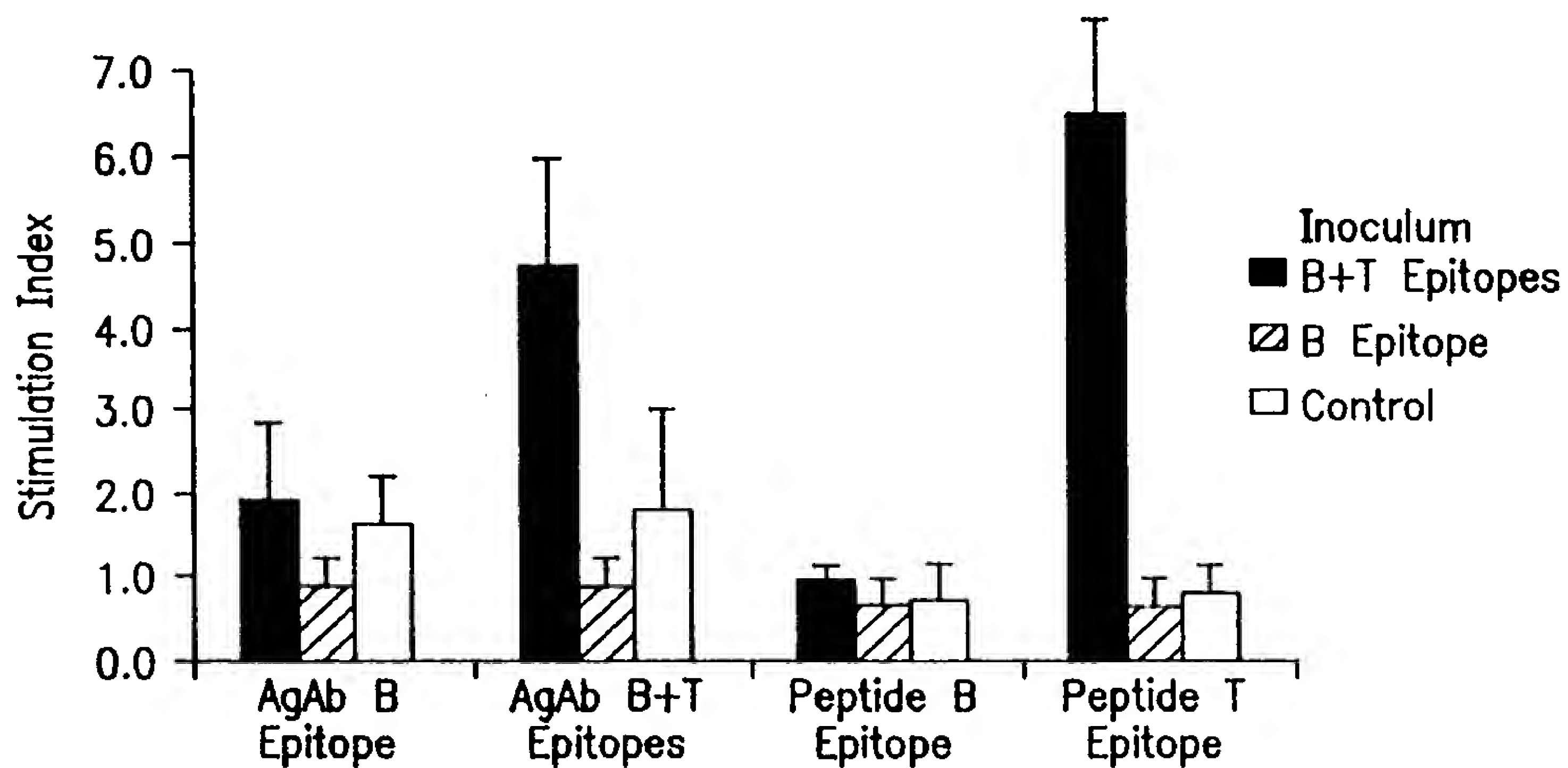


FIG. 27A

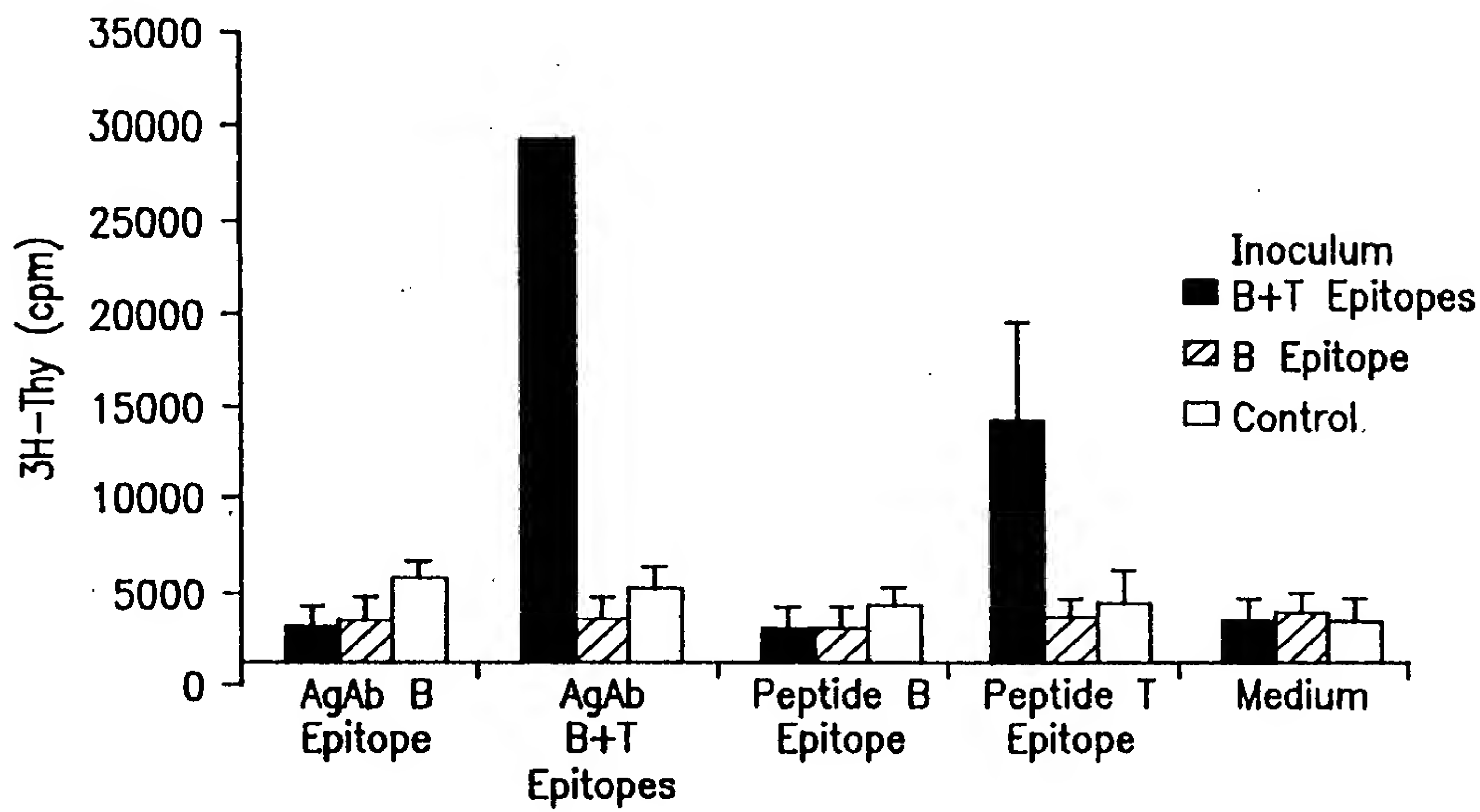


FIG. 27B

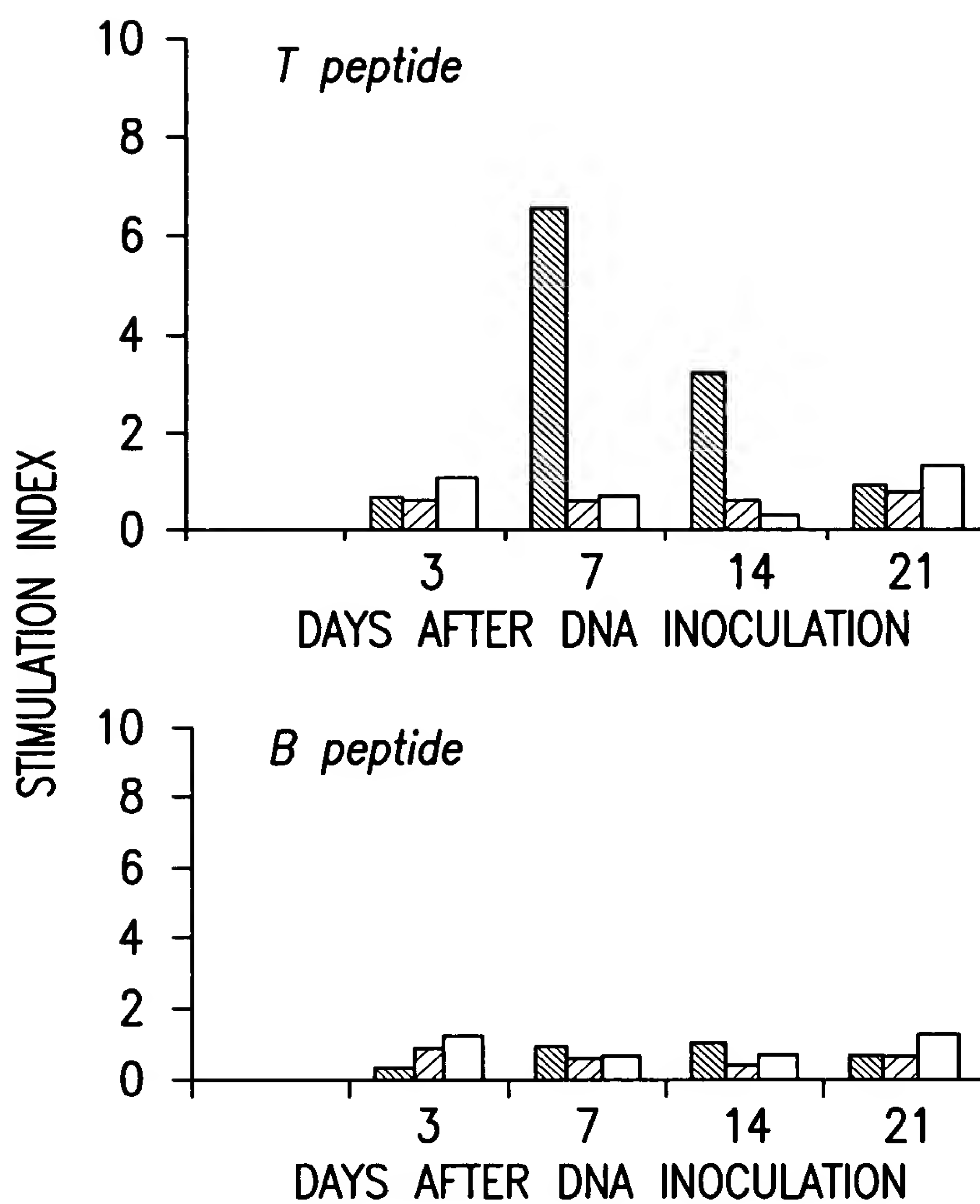


FIG.28

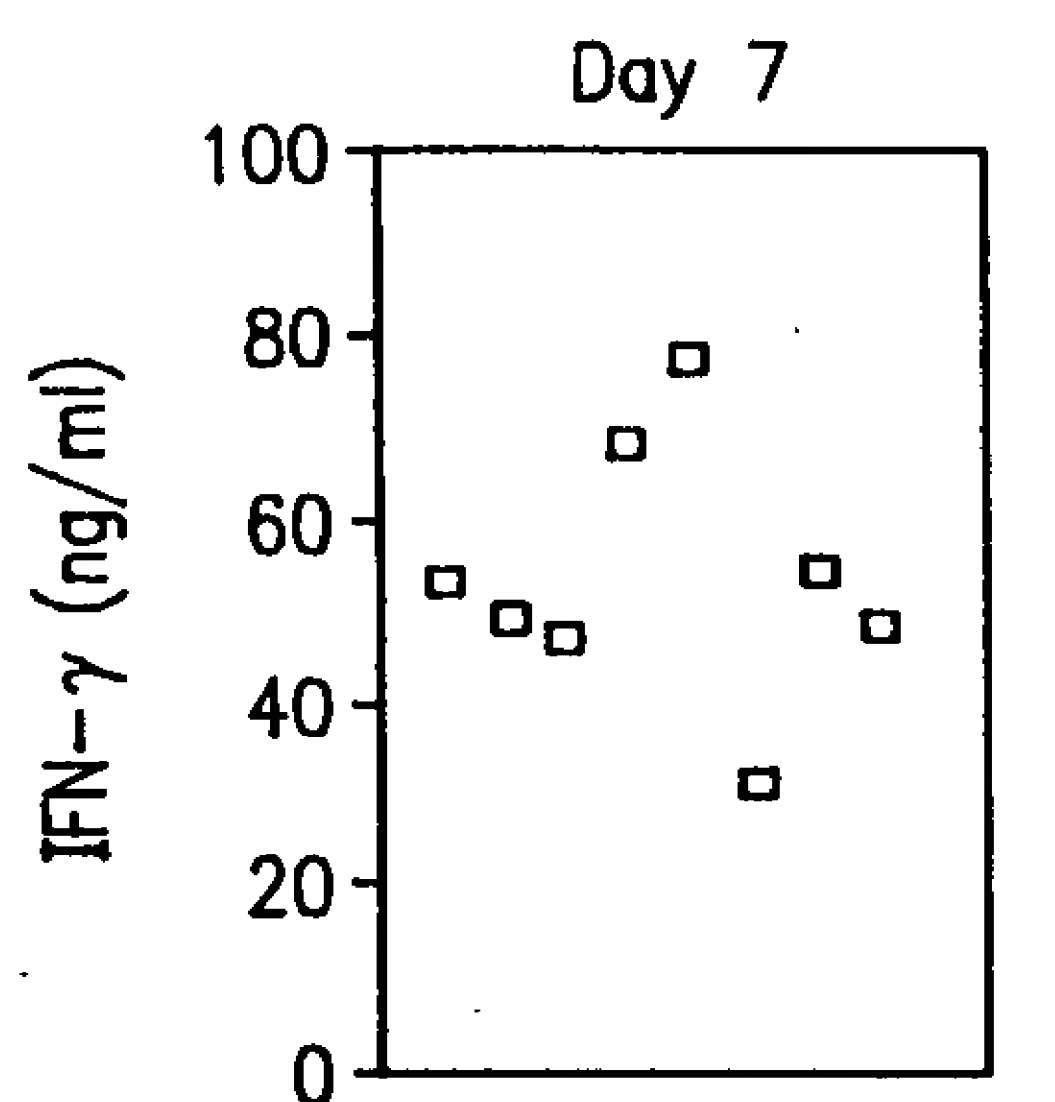


FIG. 29A

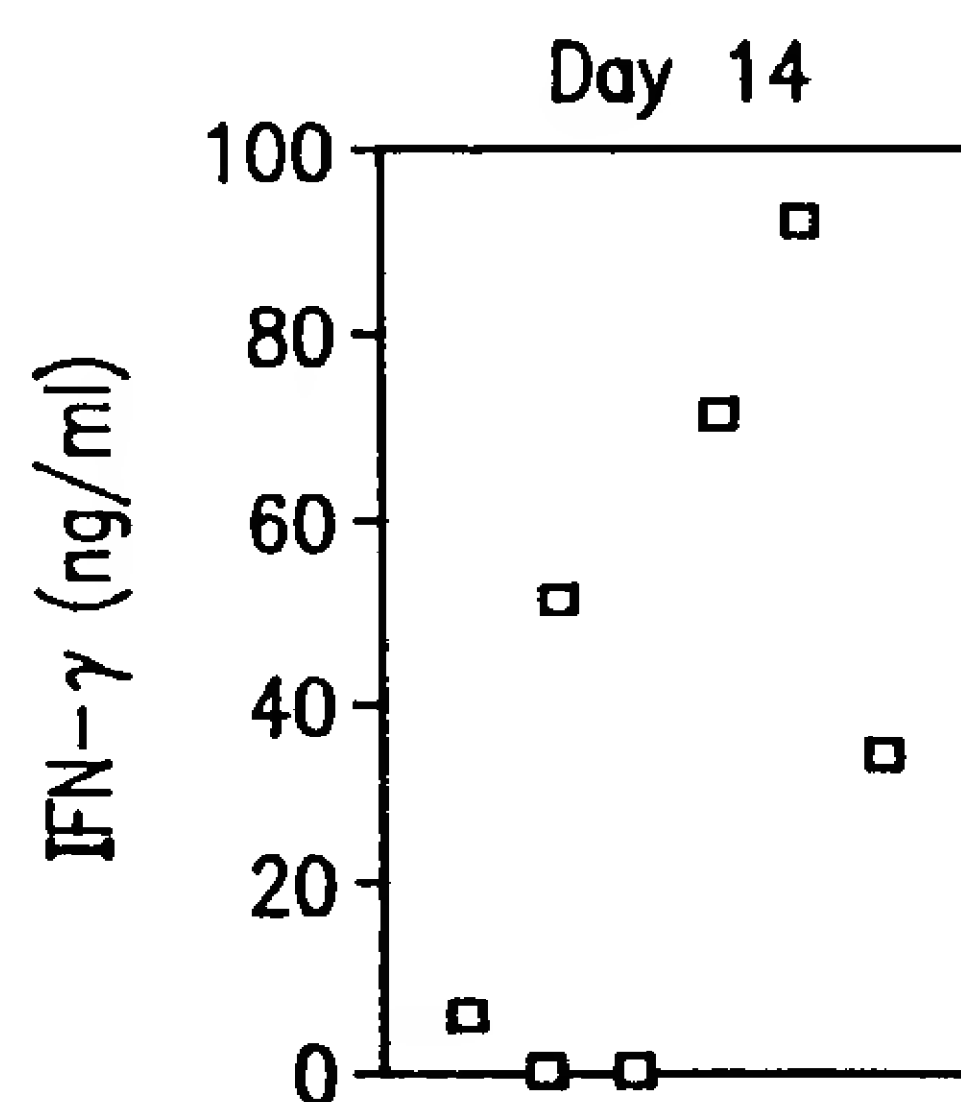


FIG. 29B

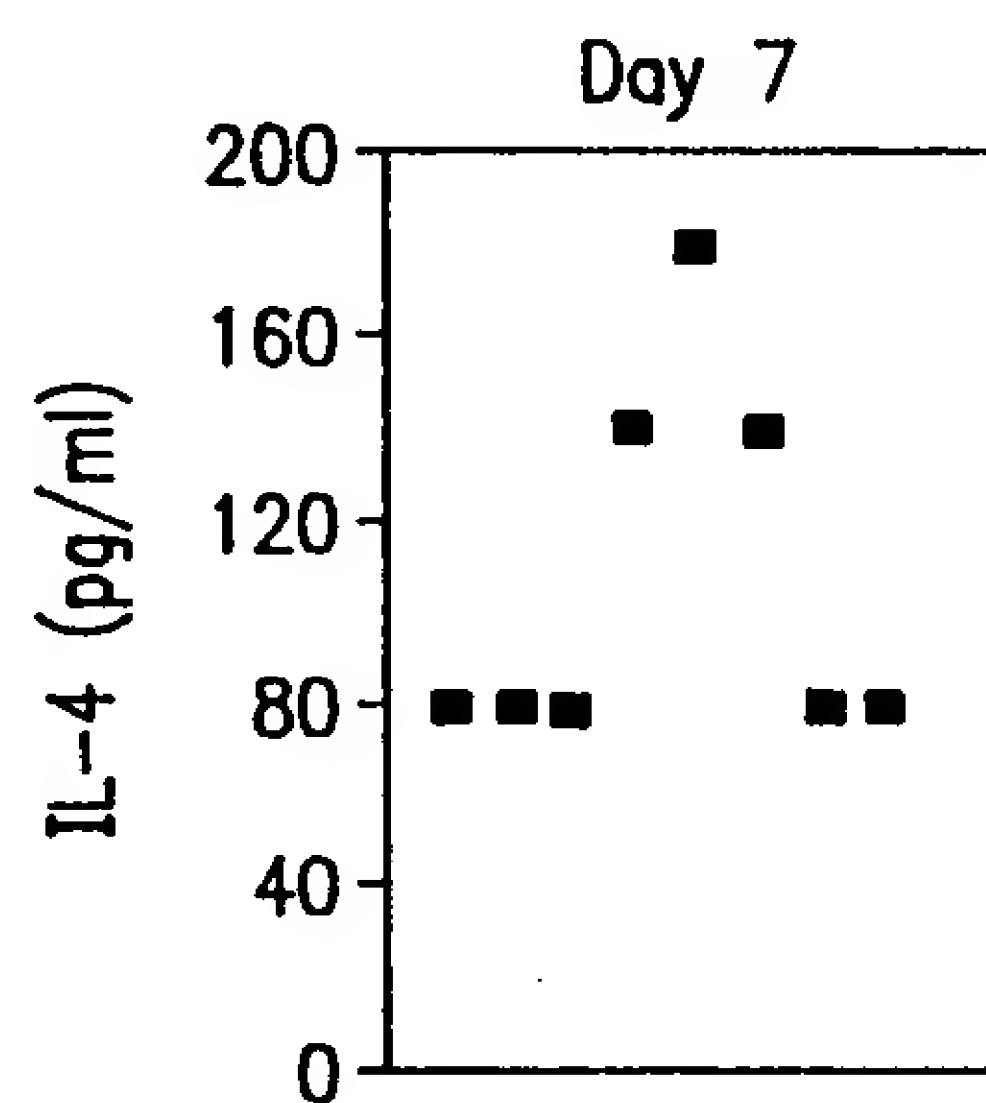


FIG. 29C

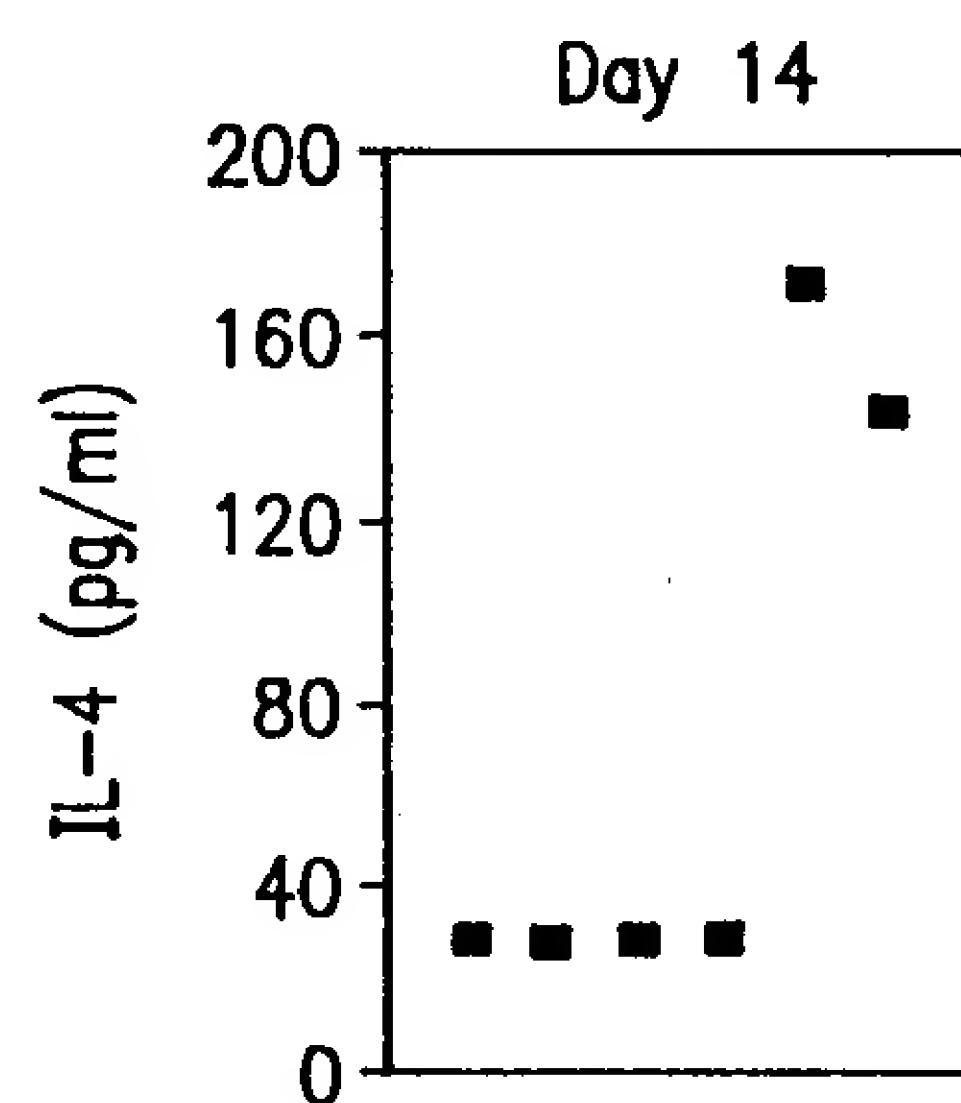


FIG. 29D

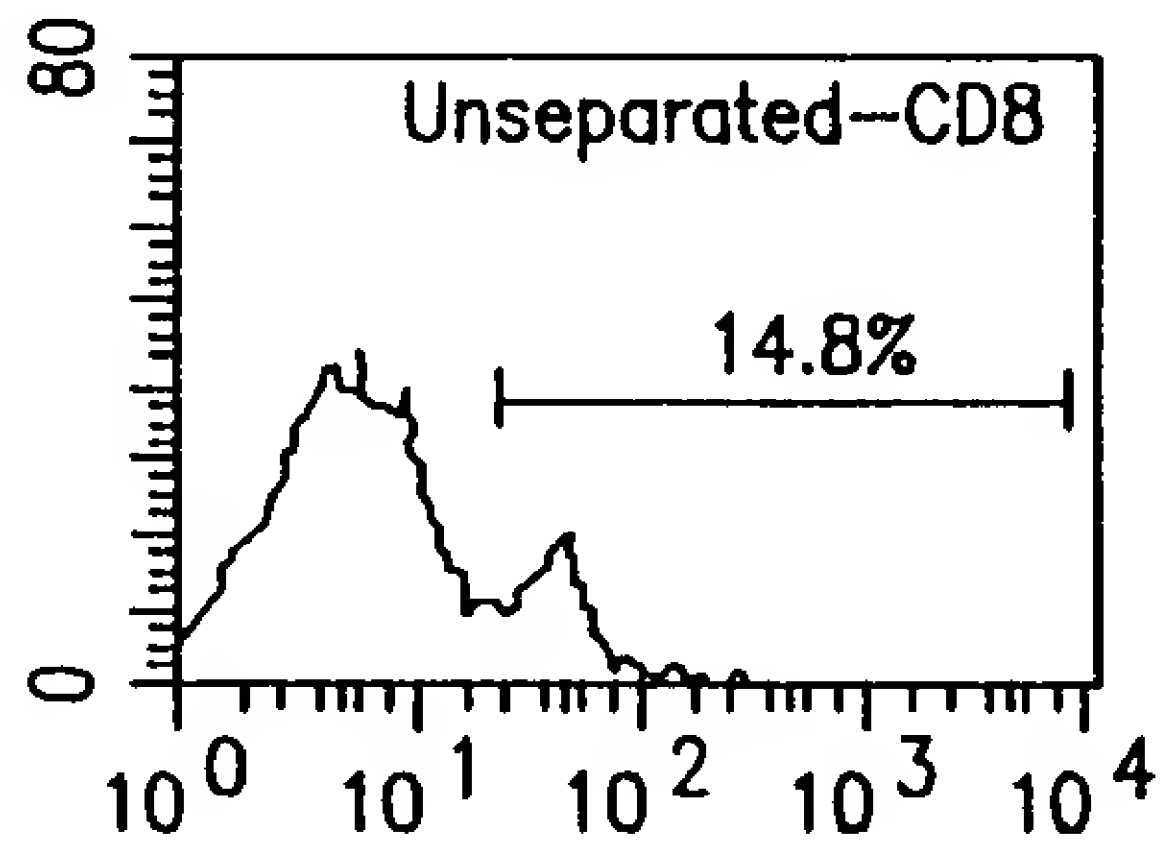


FIG. 30A

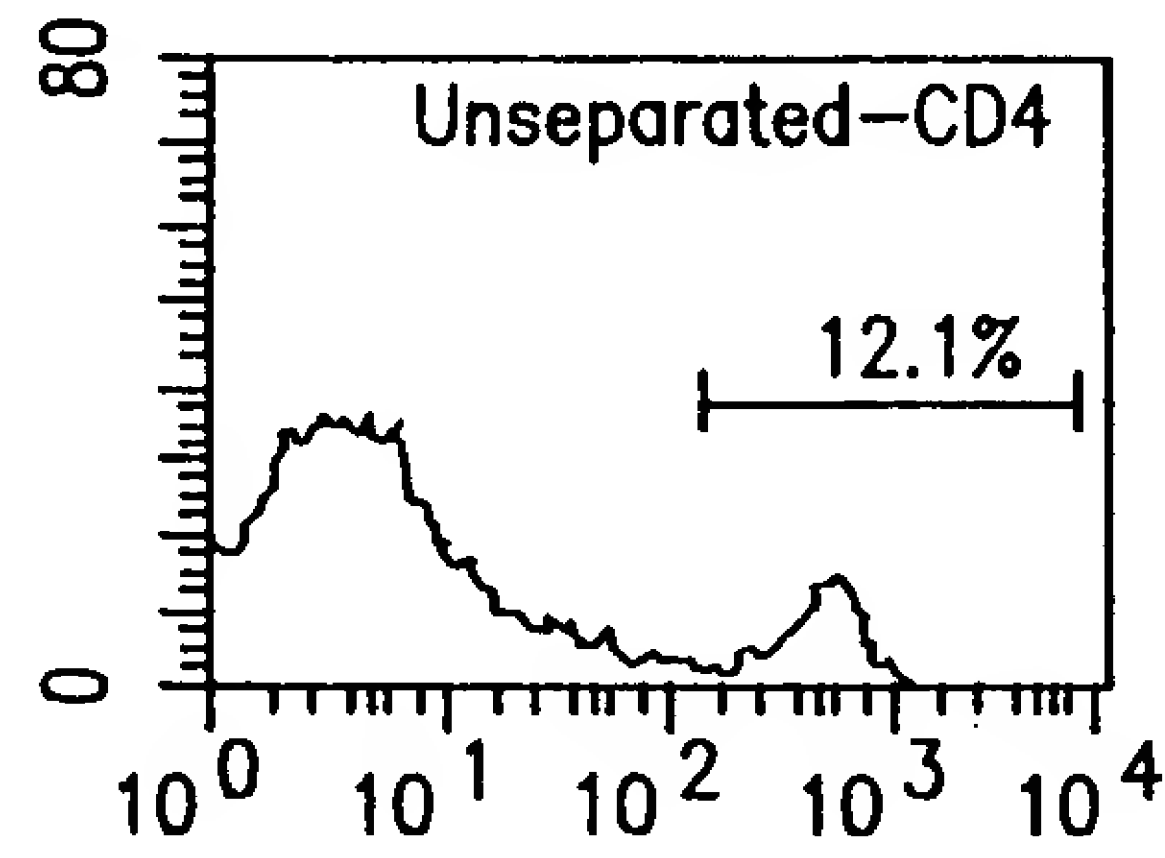


FIG. 30B

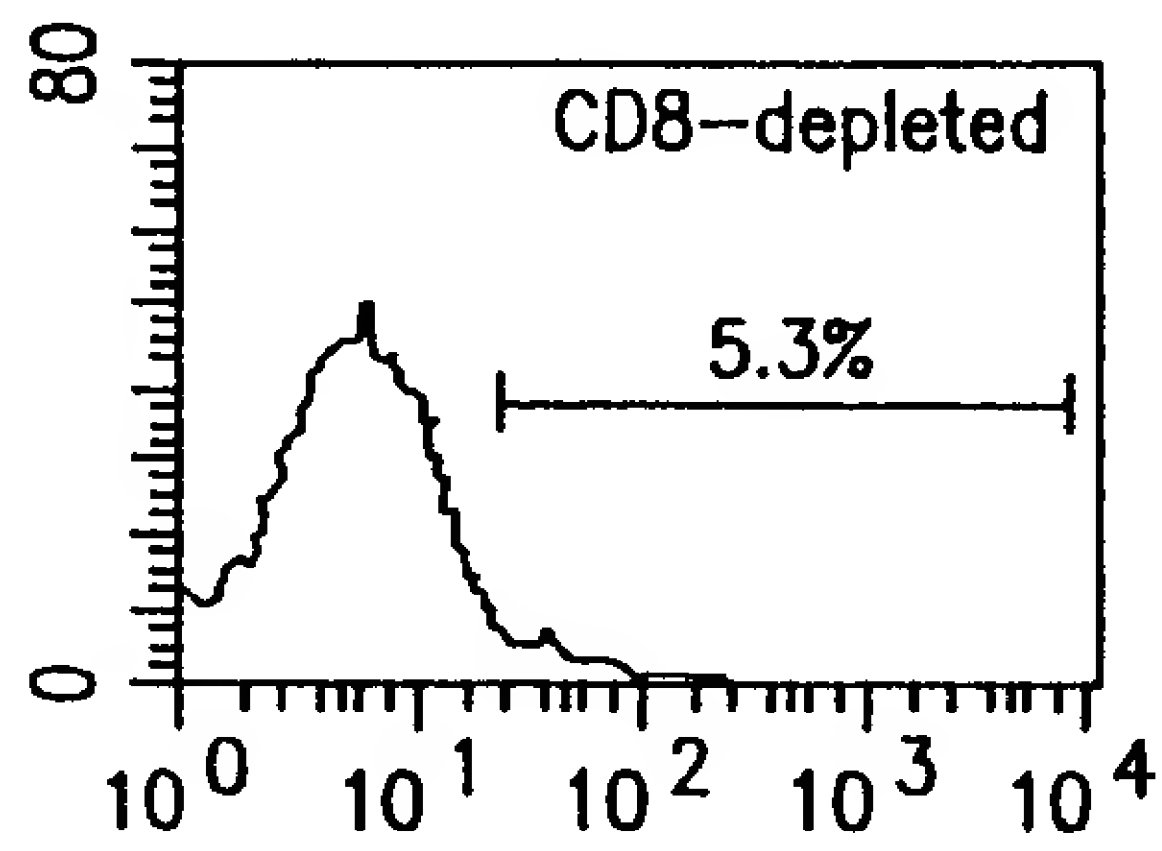


FIG. 30C

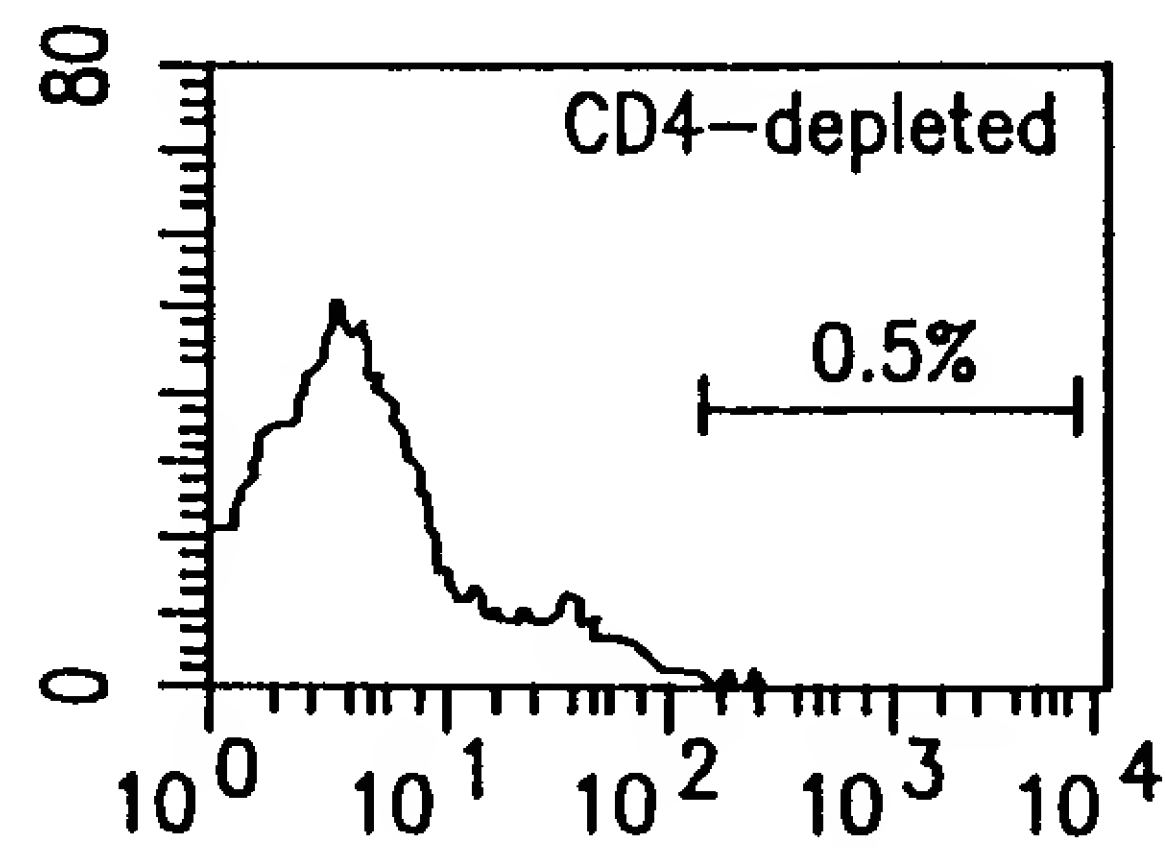


FIG. 30D

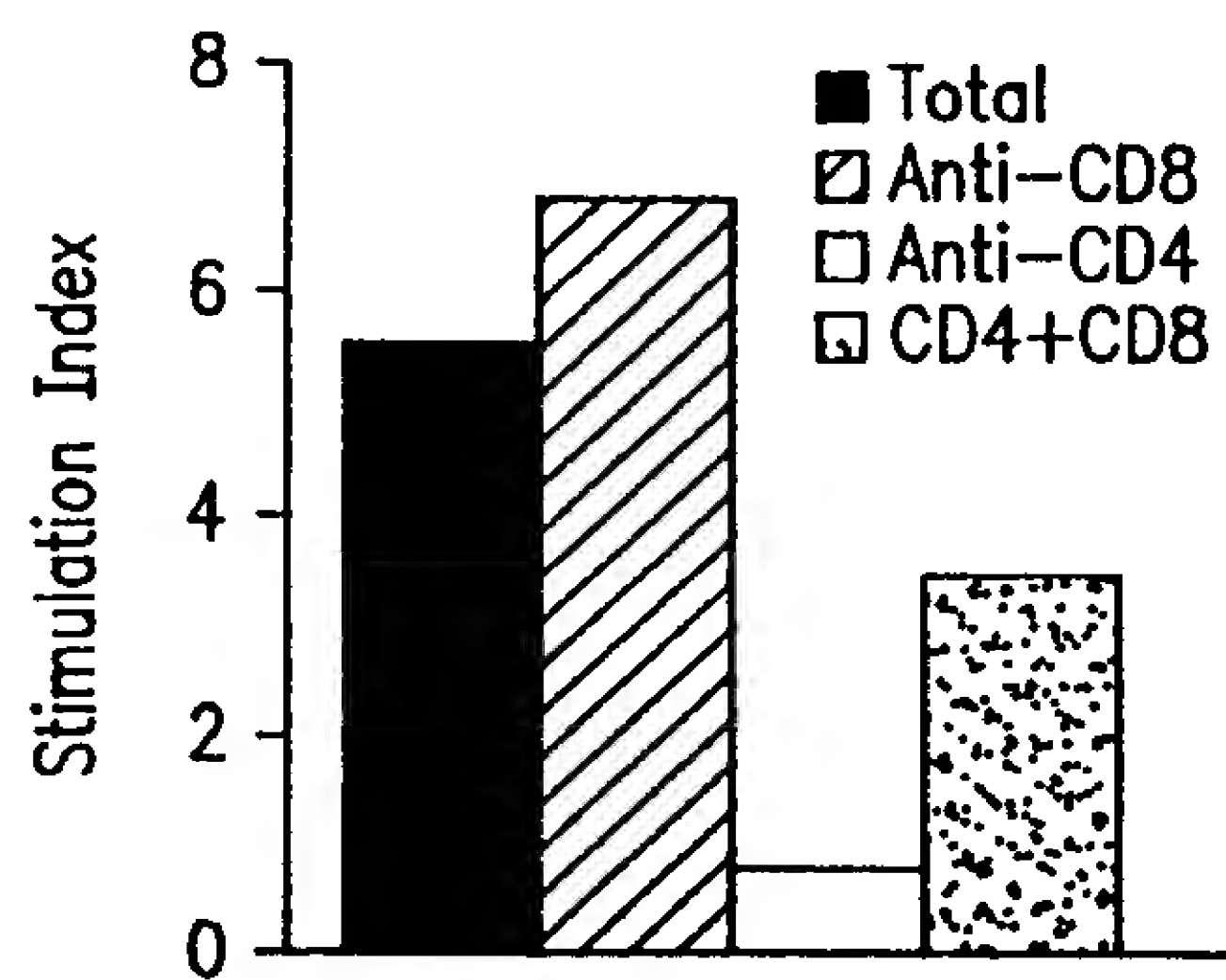


FIG. 30E

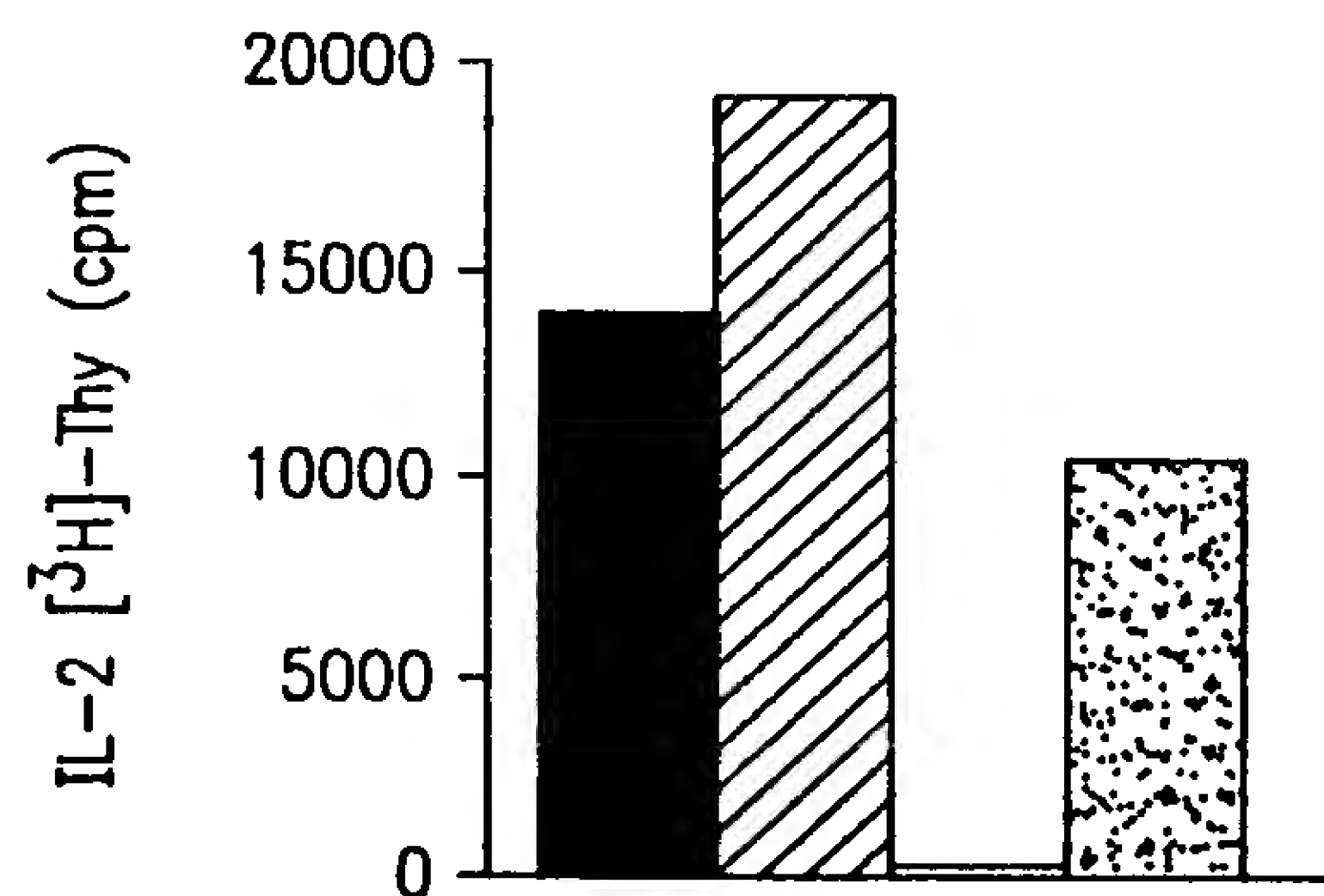


FIG. 30F

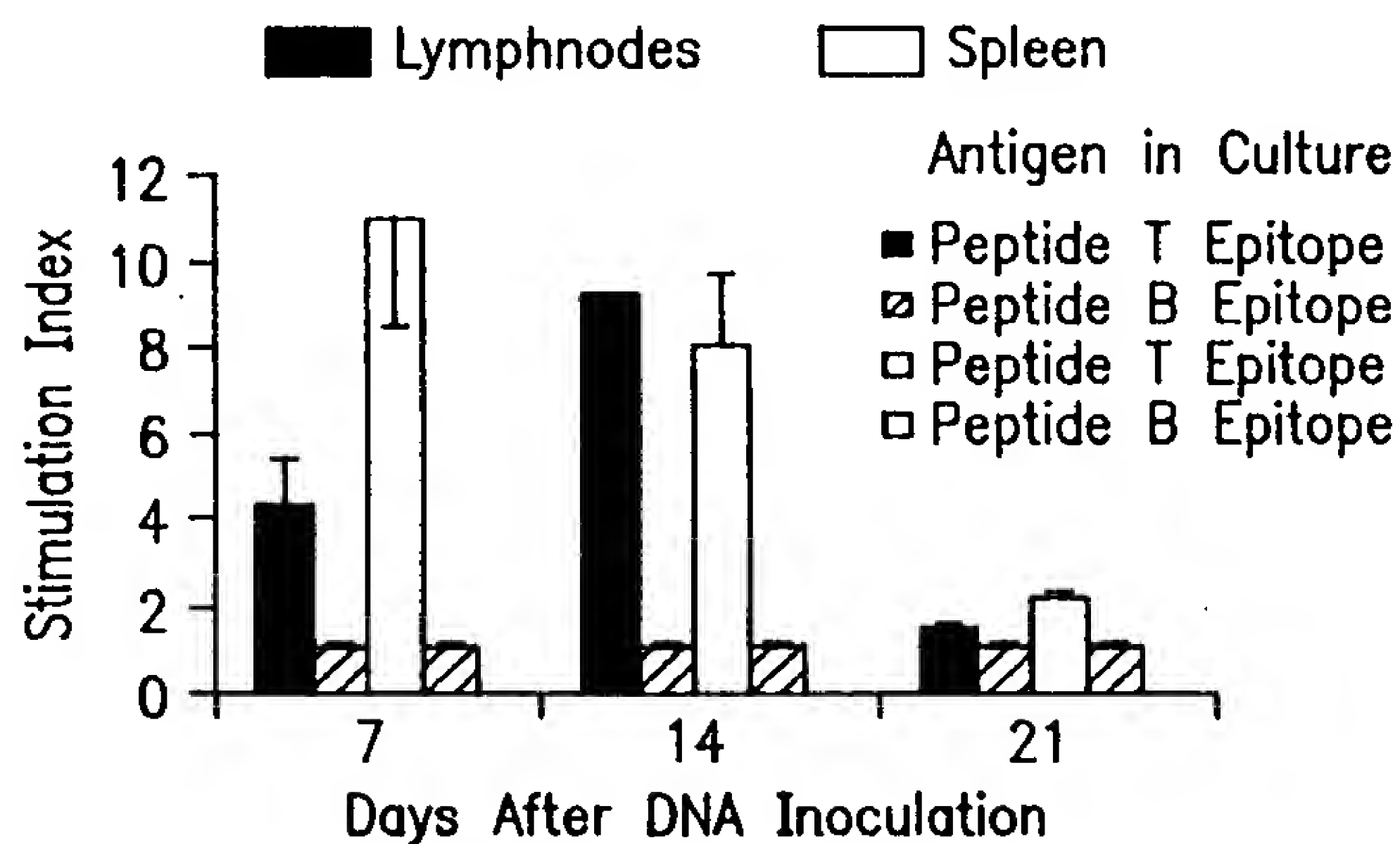


FIG. 31A

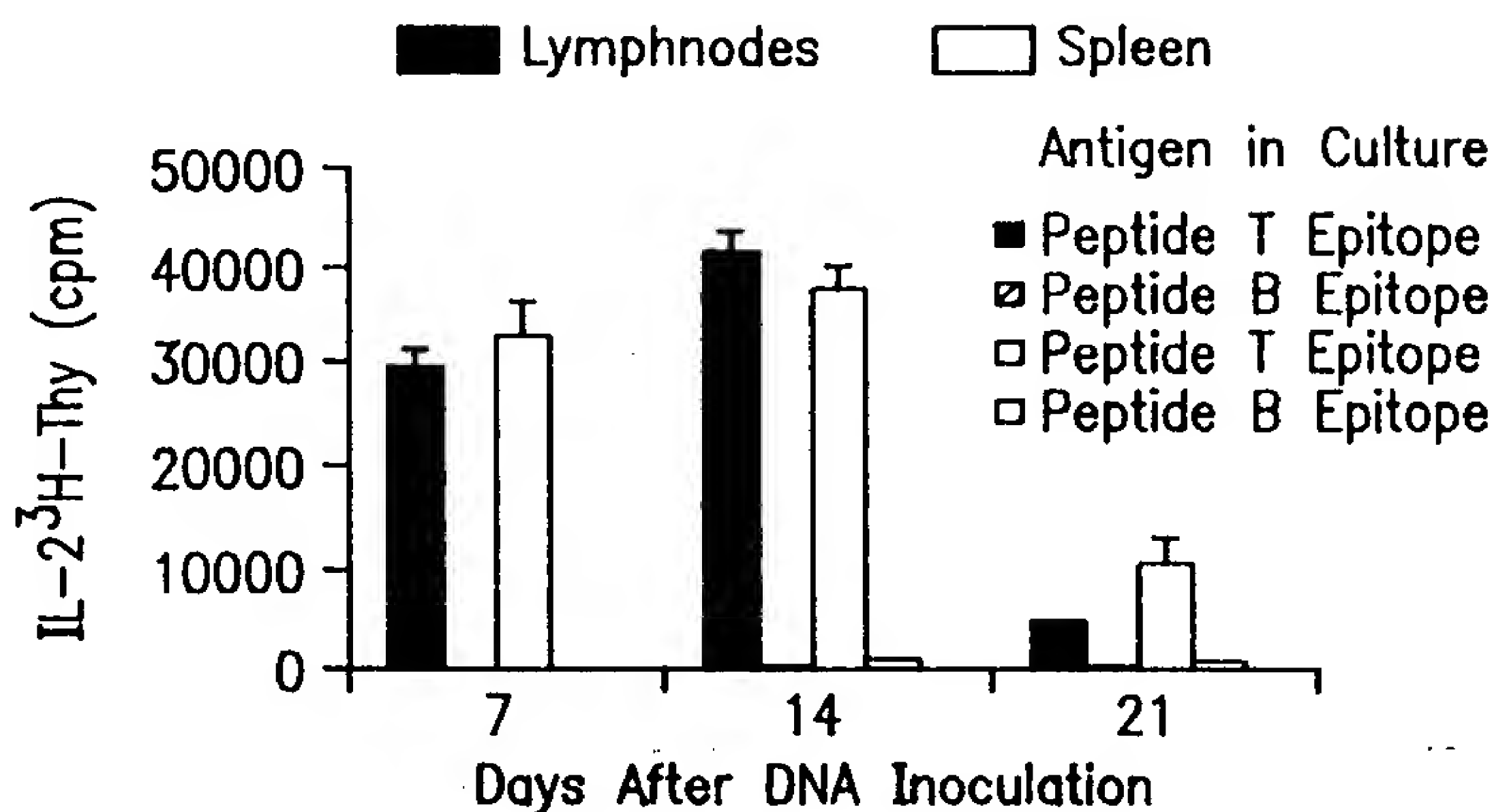


FIG. 31B

Circulating Transgenic Ig (ng/ml)		
Day 7	Day 14	Day 21
3.2±1.6	13.3±5	1.3±.7

FIG. 31C

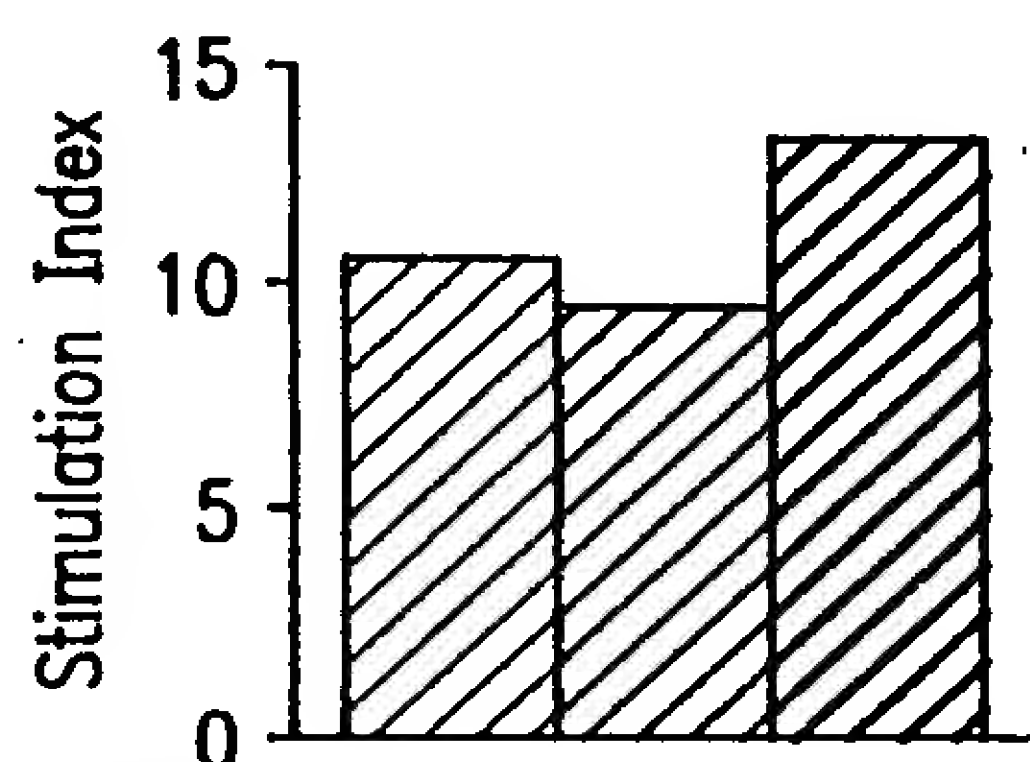


FIG. 31D

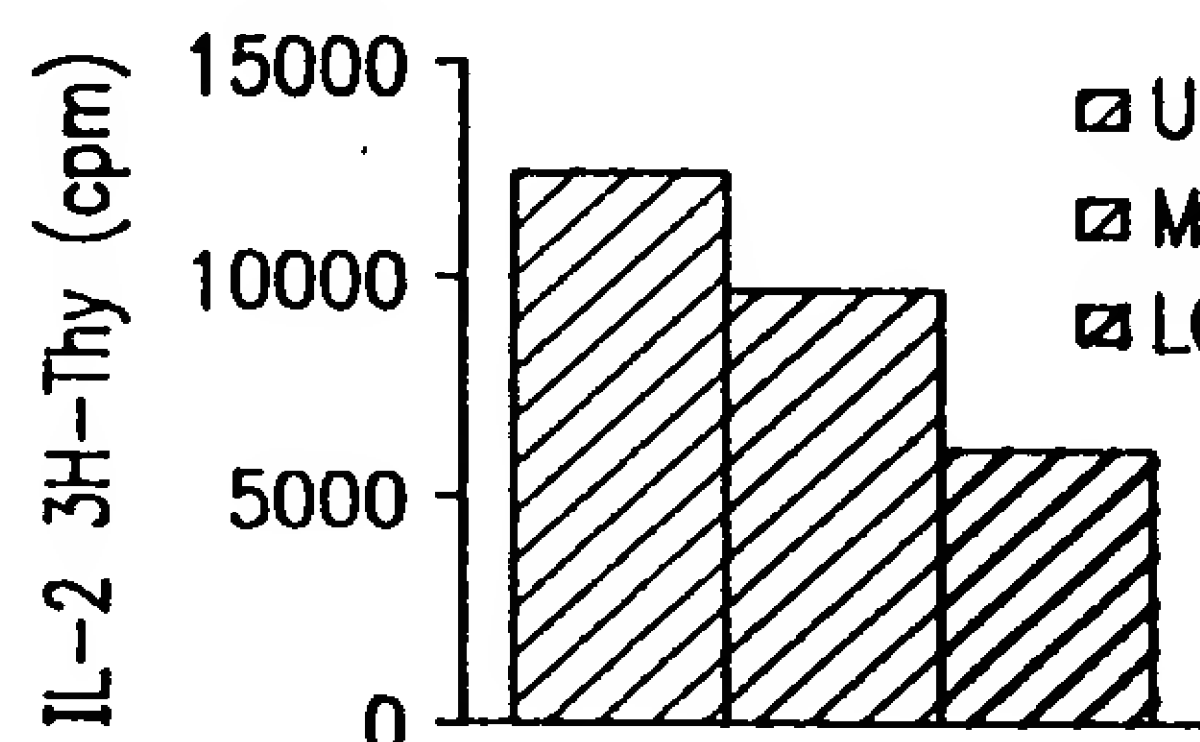


FIG. 31E

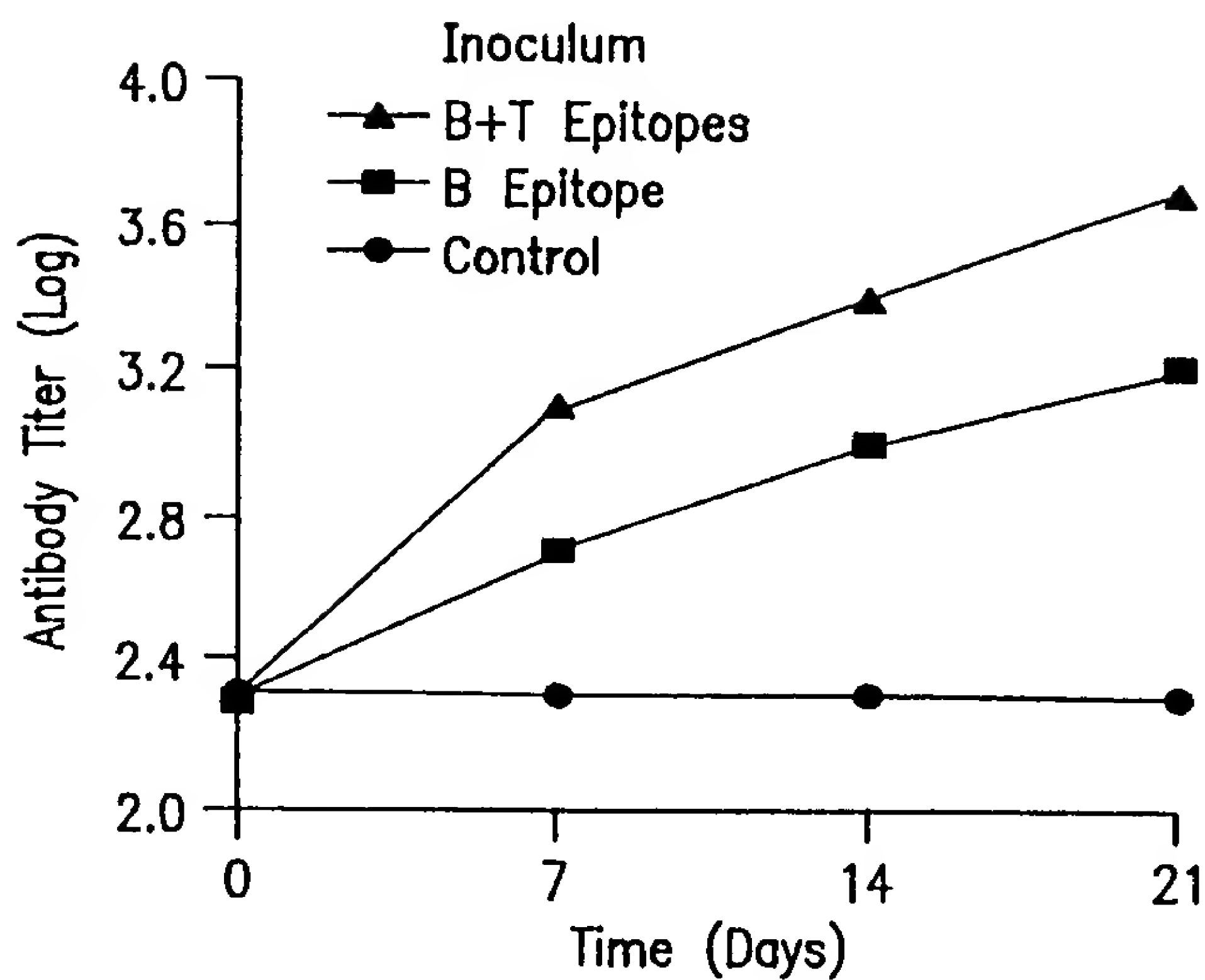


FIG. 32A

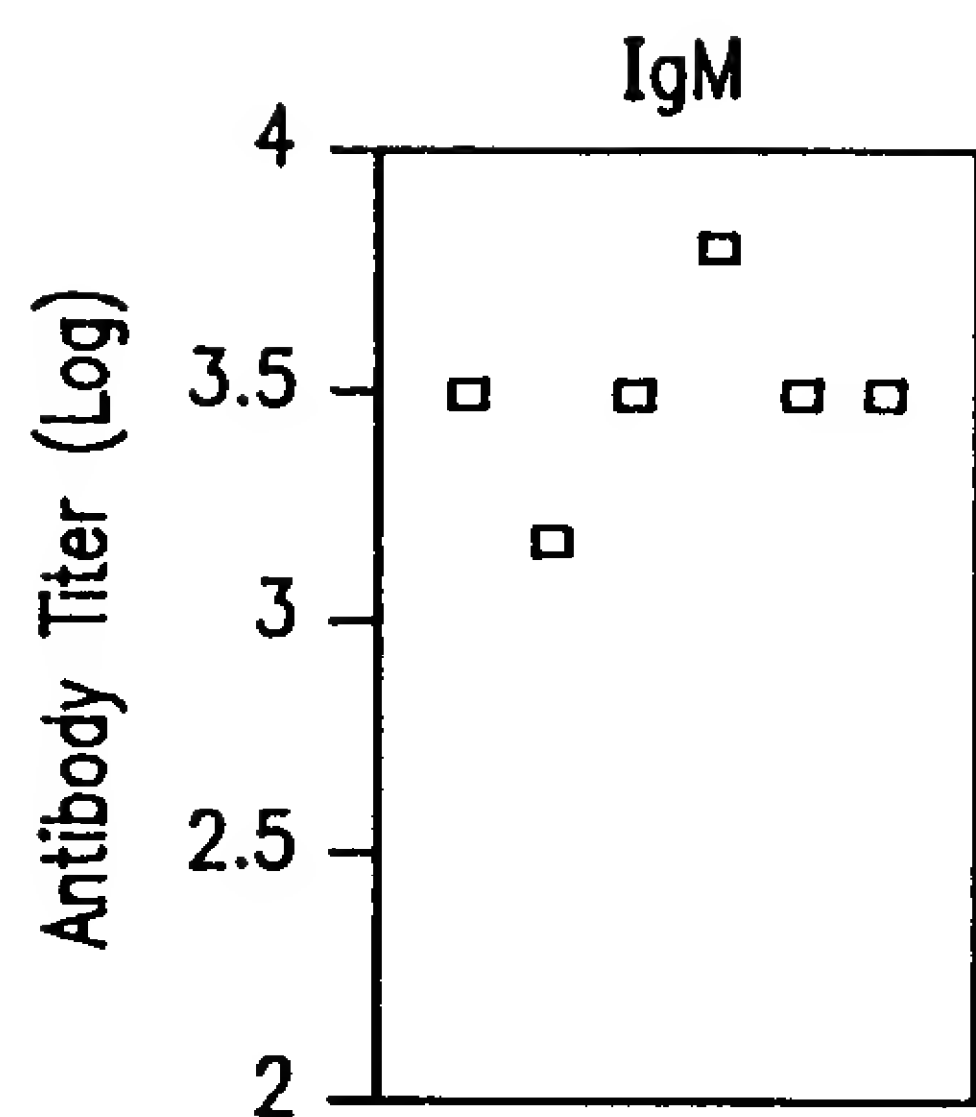


FIG. 32B

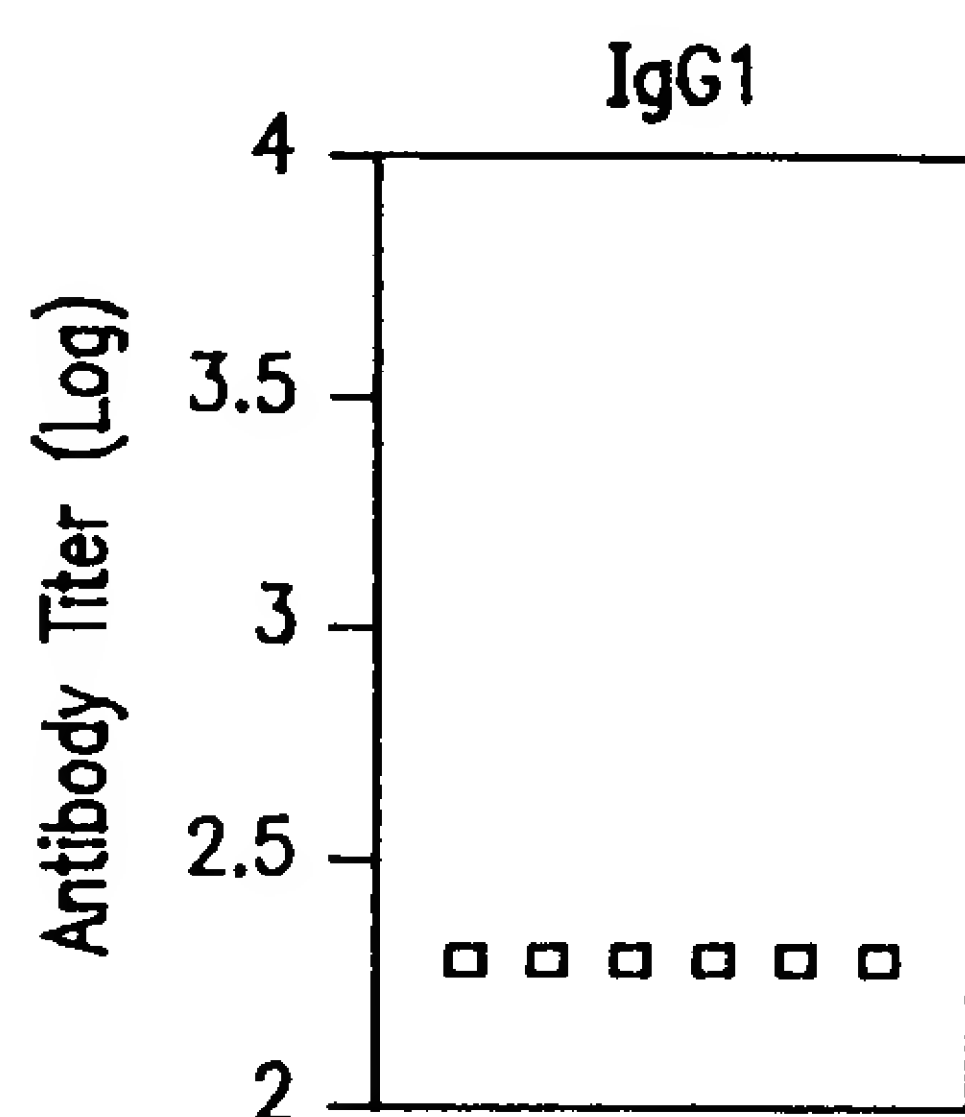


FIG. 32C

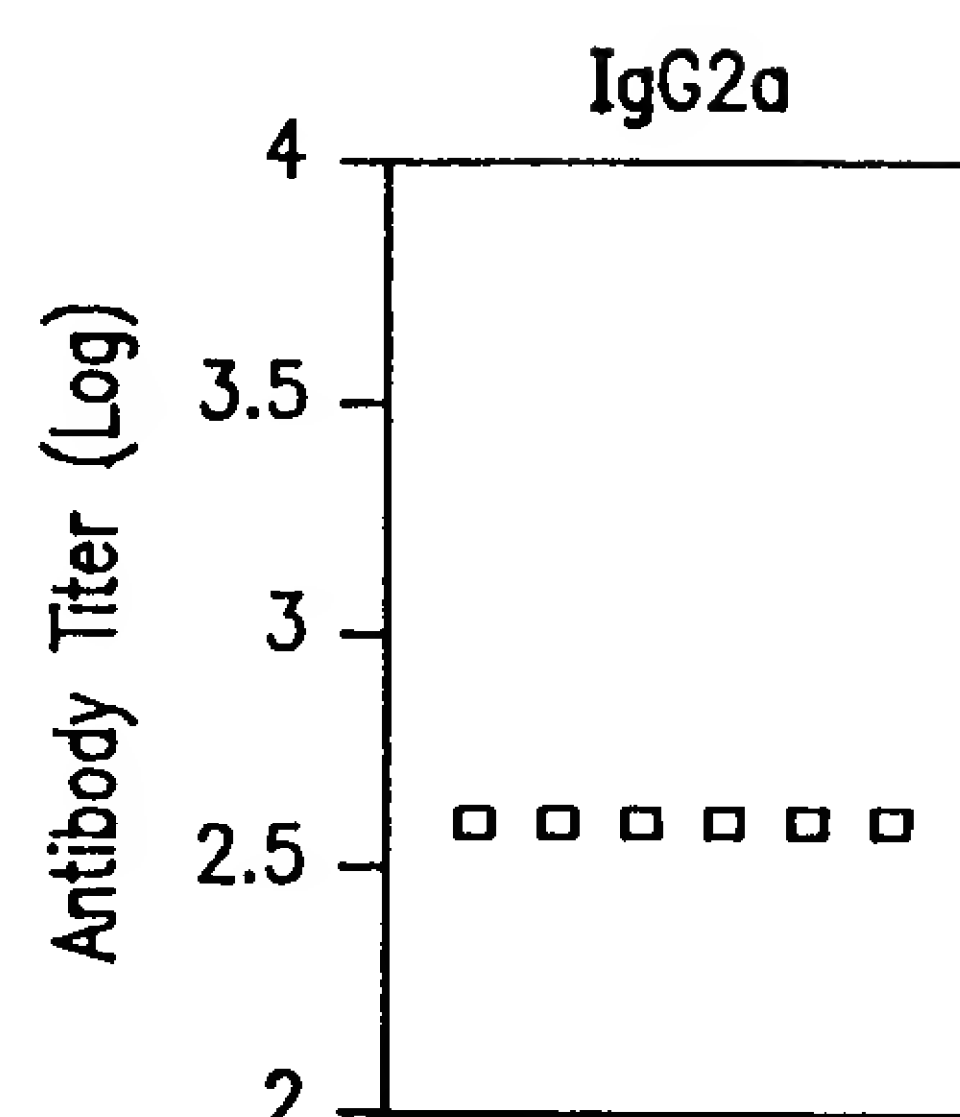


FIG. 32D

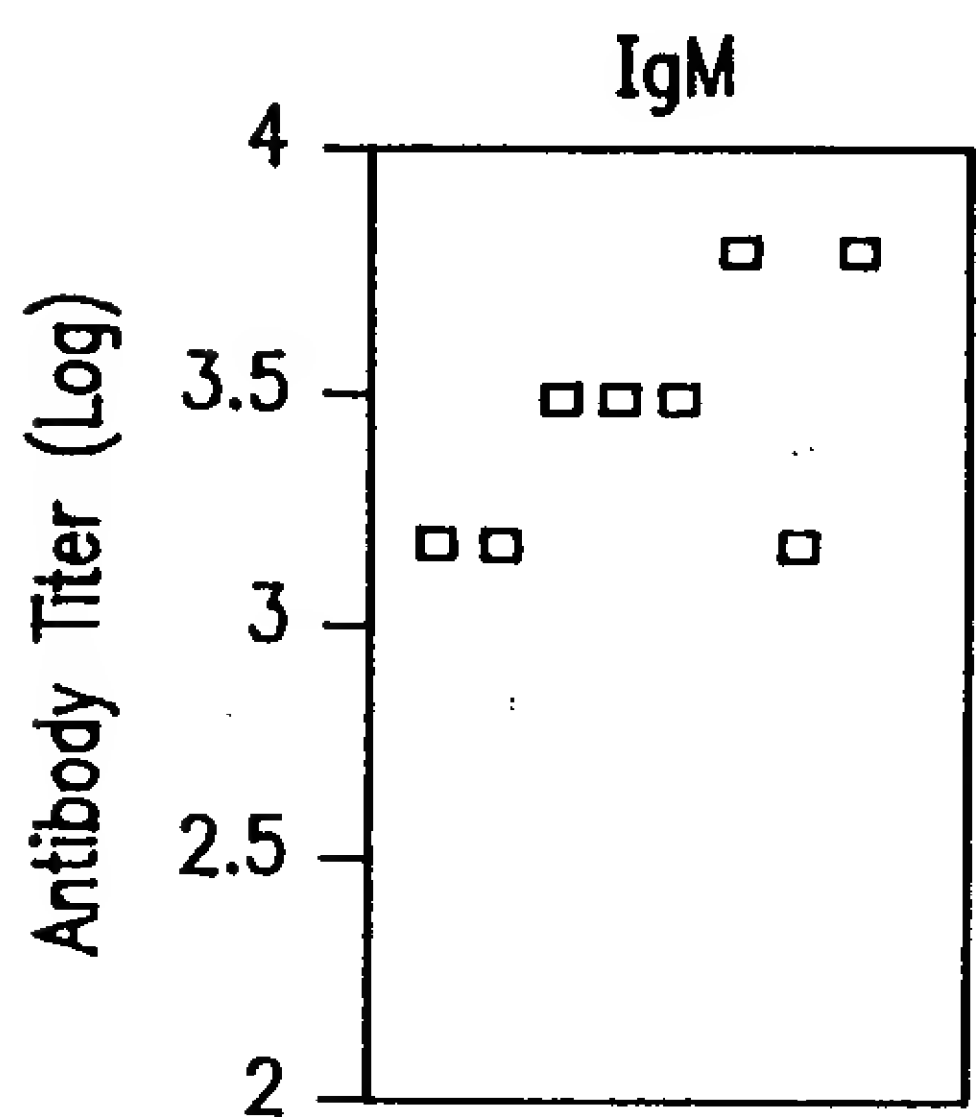


FIG. 32E

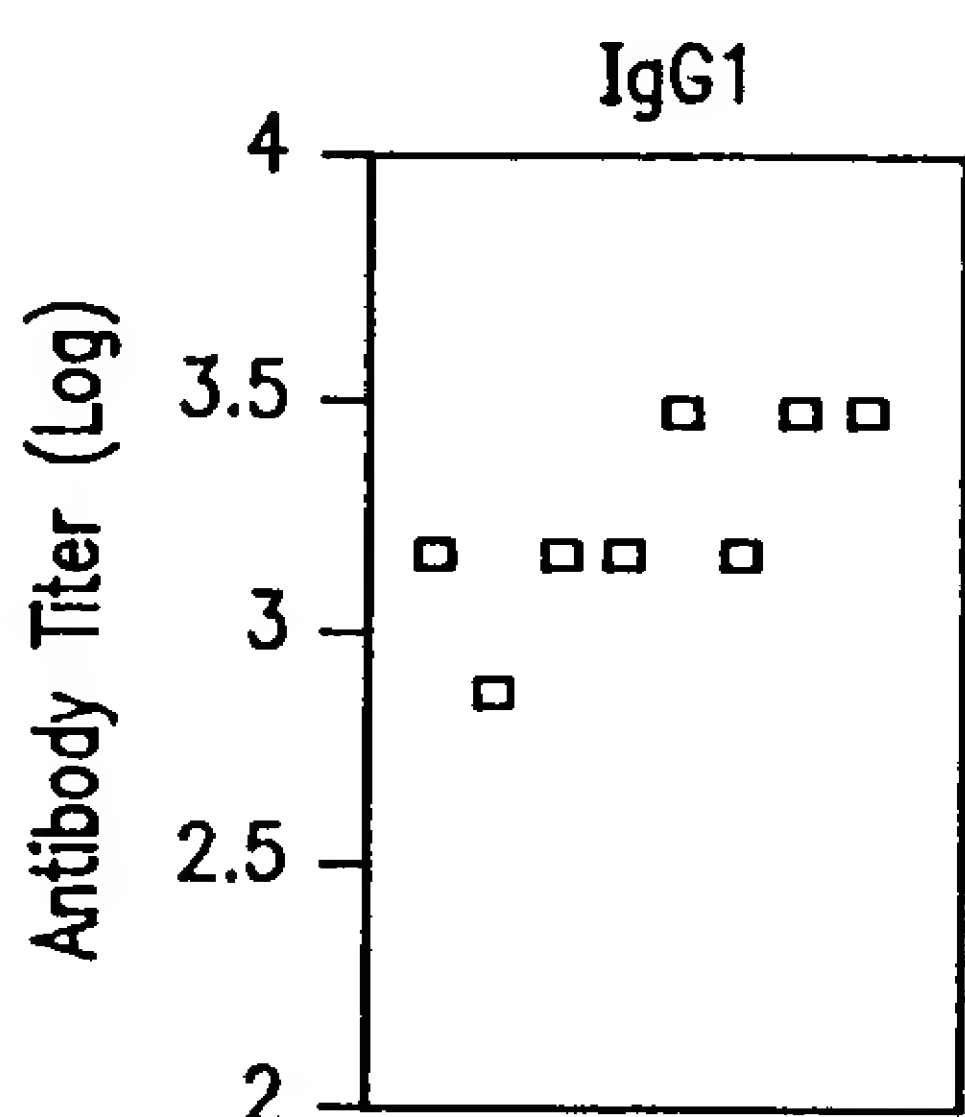


FIG. 32F

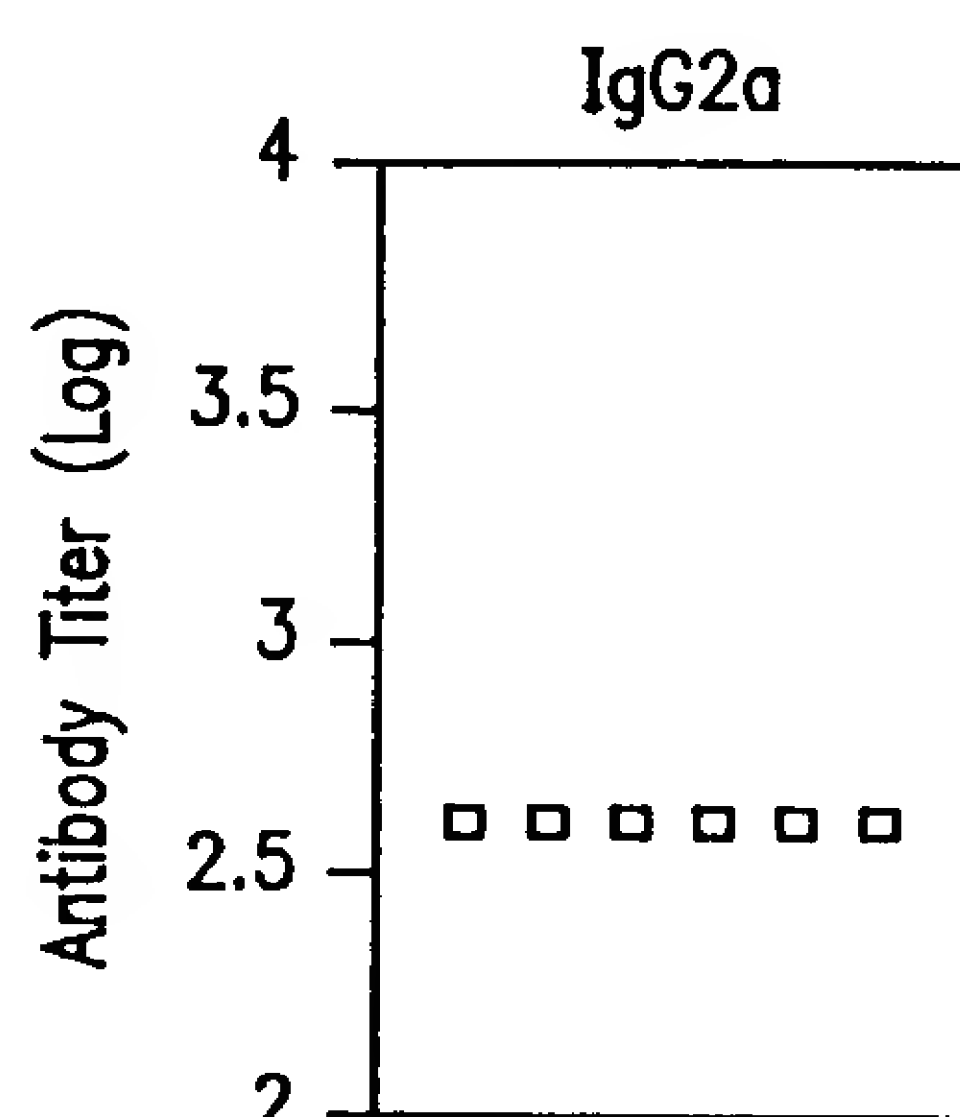


FIG. 32G

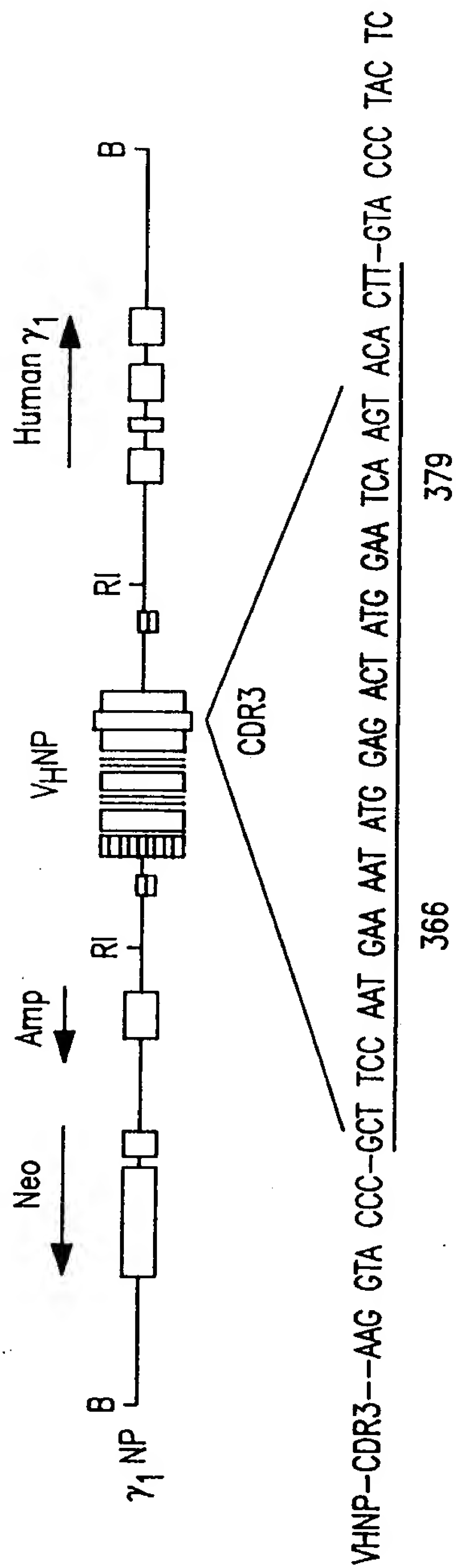


FIG. 33

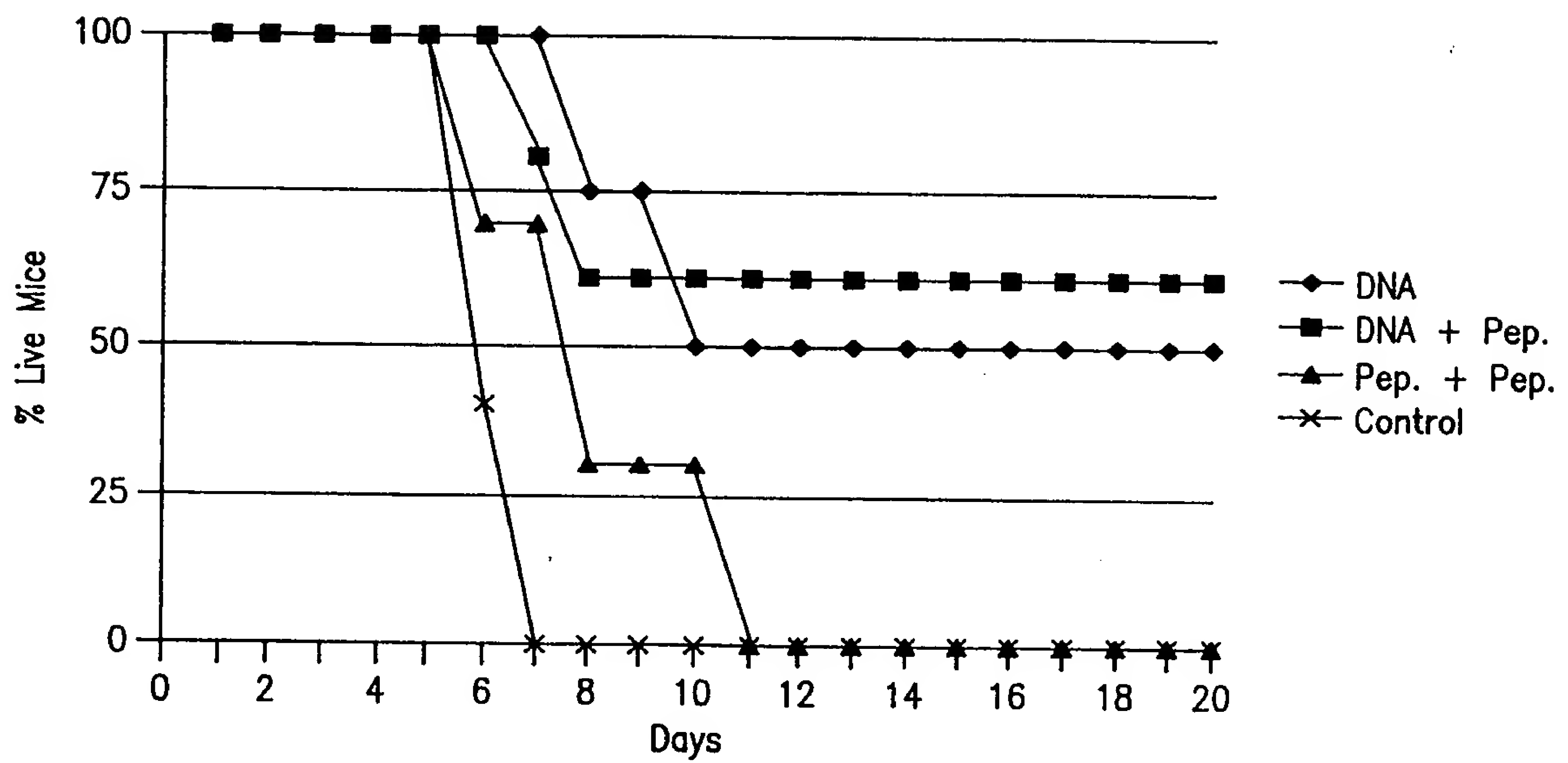


FIG. 34

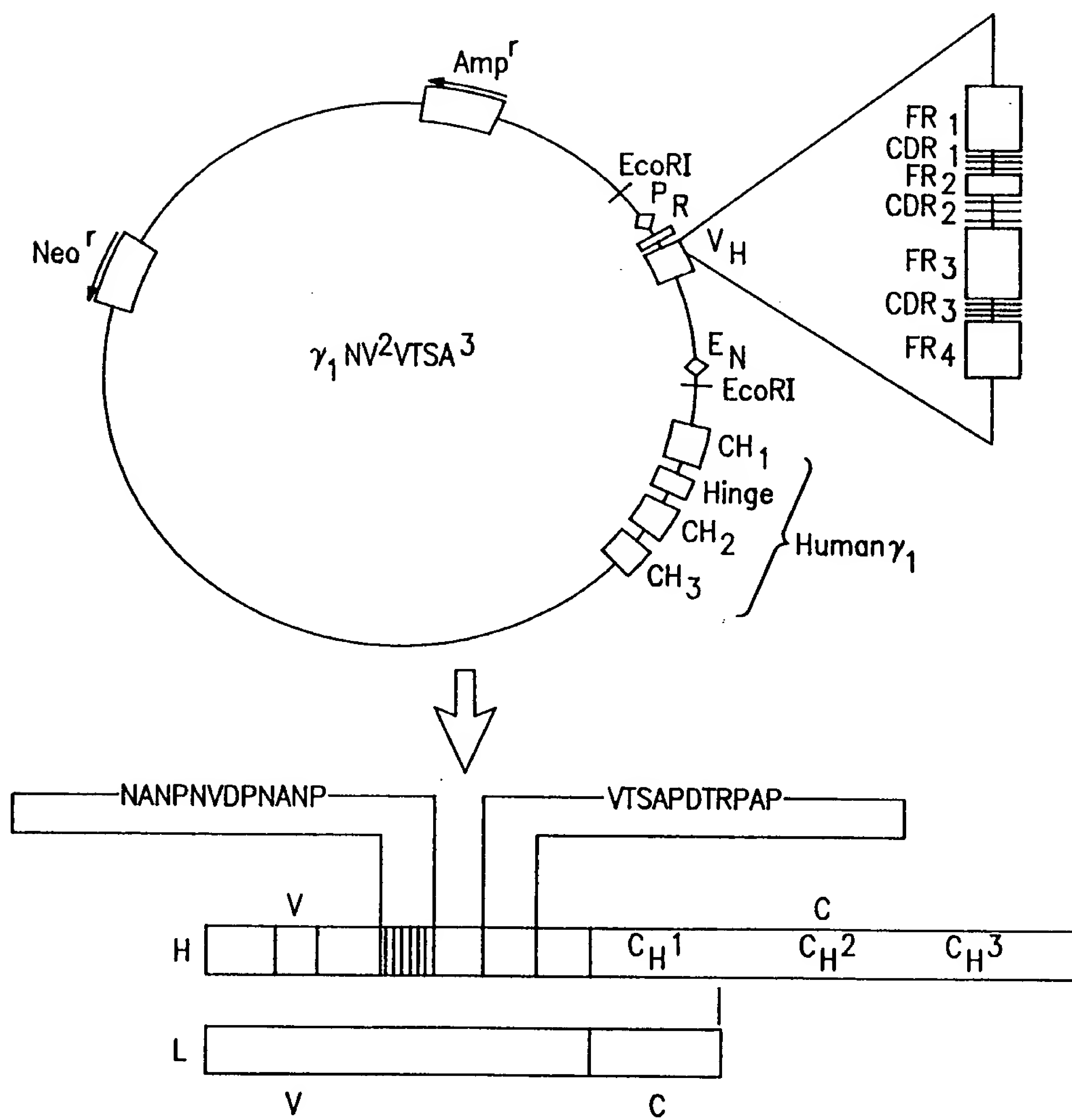


FIG. 35

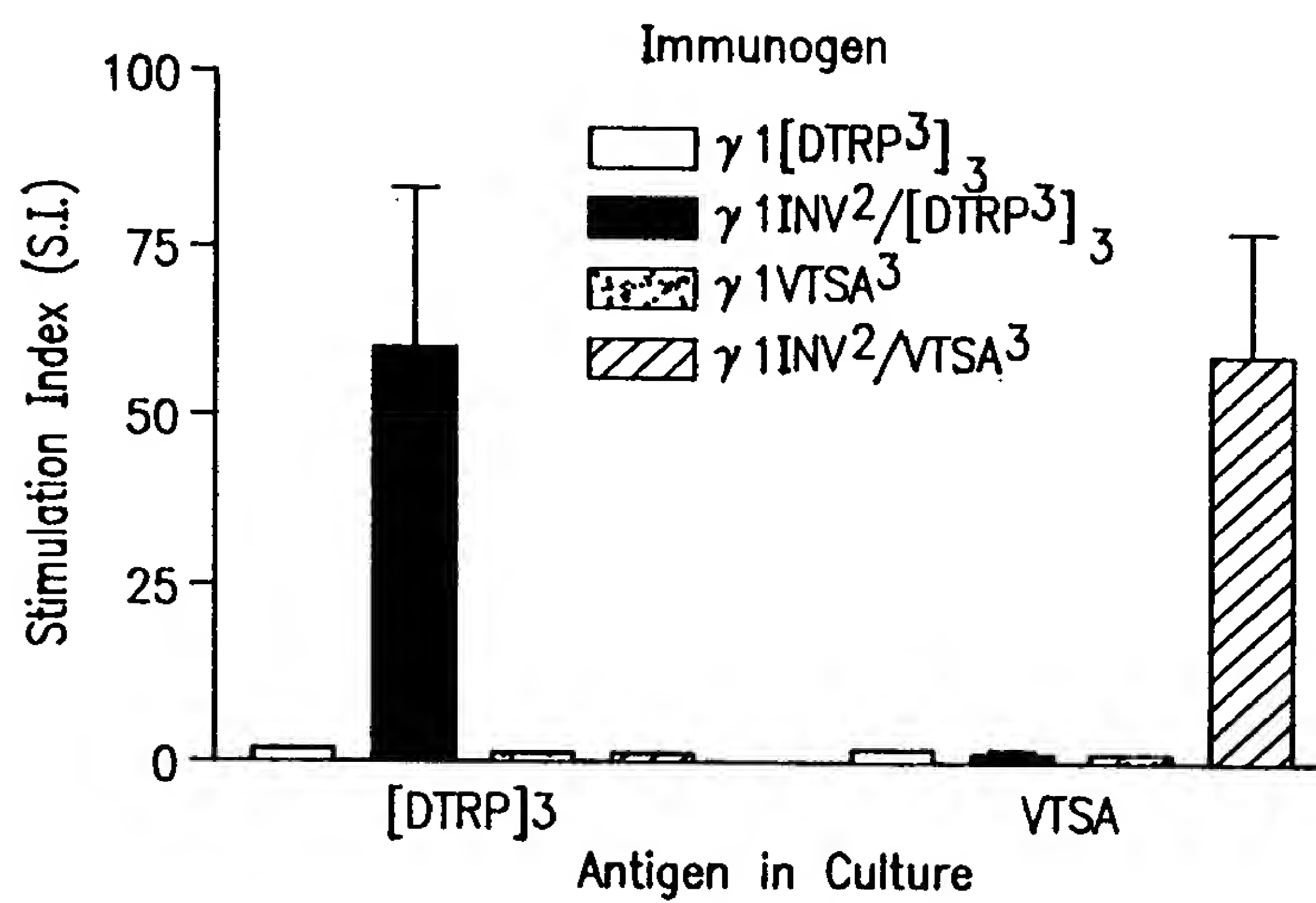


FIG. 36



Inventor: Zanetti, M.
Application No. 09/300,959
Docket No.: 14162.0001U1
Page 40 of 40
Replacement Sheet

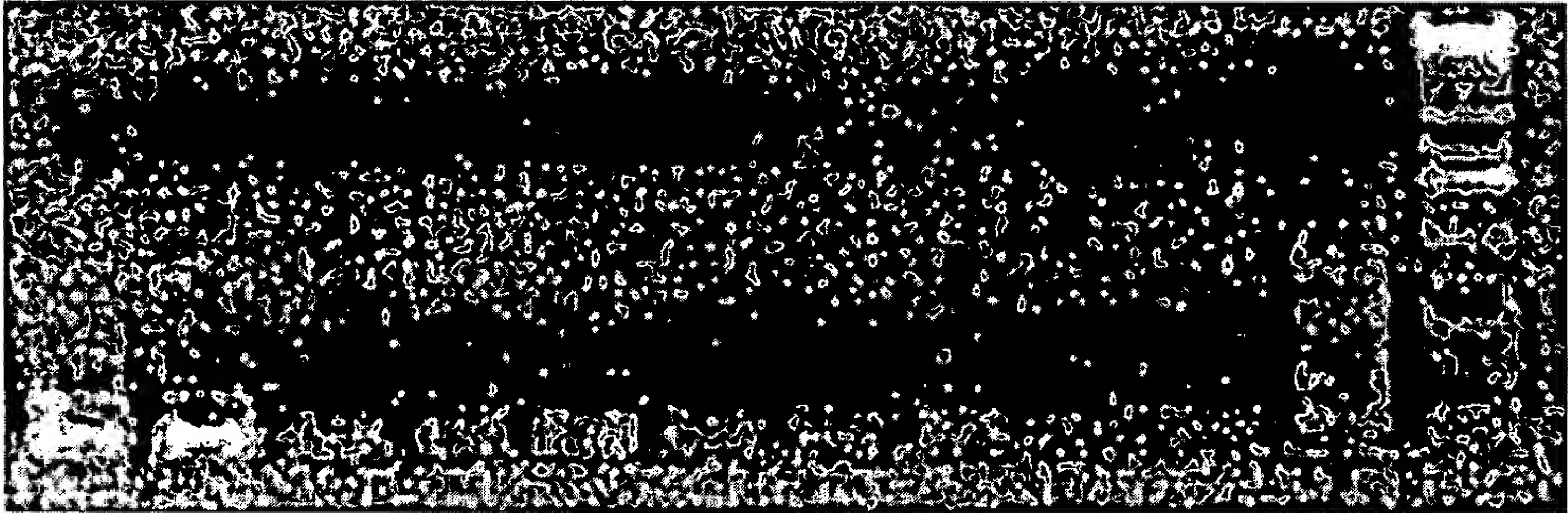


FIG.37A

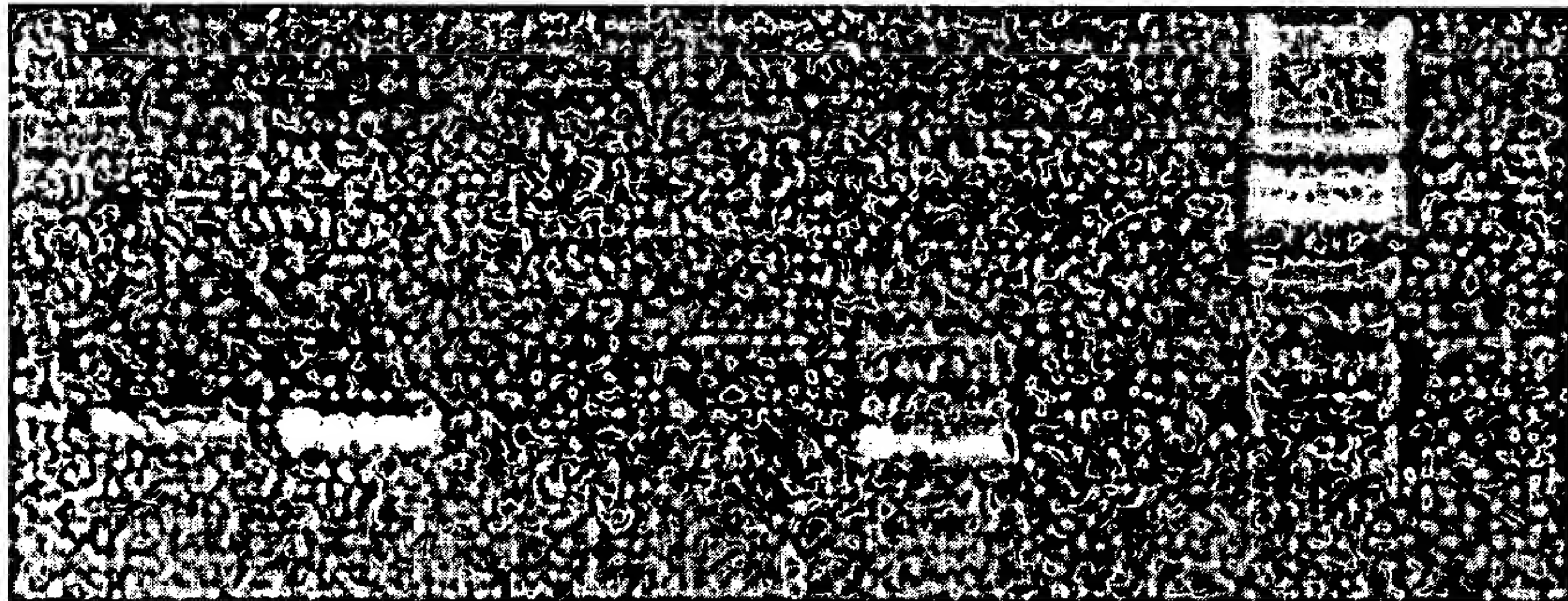


FIG.37B